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THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: BANK 852 (two lines).

Established in ENGLAND, 1859.]

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]

Established in [AUSTRALASIA, 1885.

No. 1,791. Vol. LXXXIV. MAY 23, 1914.

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(So called)

This preparation is supplied in white granules of uniform size, and is prepared in four qualities, all of which are of excellent value.

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2 oz. in 4 oz.	4/-	3 4	doz.
3 oz. in 6 oz.	5/-	4 2	doz.
4 oz. in 8 oz.	6/2	4/10	doz.
6 oz. in 12 oz.	8/10	6 10	doz.
8 oz. in 16 oz.	11/-	8 3	doz.
16 oz. in 32 oz.	—	15/6	doz.

White or Amber Glass Kalis, plain shives, capsuled, or fitted with boxwood top shives.

	No. 1 quality	No. 3 quality	
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3 oz. in 6 oz.	4/6	3/8	doz.
4 oz. in 8 oz.	5/5	4/4	doz.
6 oz. in 12 oz.	8/4	6/6	doz.
8 oz. in 16 oz.	10/6	8/-	doz.
10 oz. in 20 oz.	12/6	9/6	doz.

Boxwood top shives charged 3d. per dozen extra for 8 oz. size and under, 6d. per doz. extra for sizes exceeding 8 oz.

Wood's plug-stoppered Cheltenhams, metallic capsuled.

	No. 1 quality	No. 3 quality	
3 oz. in 6 oz.	6 9	5 9	doz.
4 oz. in 8 oz.	7 9	6 6	doz.
6 oz. in 12 oz.	10 9	9/-	doz.
8 oz. in 16 oz.	13/-	11/-	doz.

Plug-stopp'd Cheltenhams, metallic capsuled or fitted with boxwood top shives.

	No. 1 quality	No. 3 quality	
3 oz. in 6 oz.	5/6	4 9	doz.
4 oz. in 8 oz.	6 9	5 6	doz.
6 oz. in 12 oz.	9/-	7/6	doz.
8 oz. in 16 oz.	11/6	9/6	doz.

Boxwood top shives charged 3d. per dozen extra for 8 oz. size and under, 6d. per doz. extra for sizes exceeding 8 oz.

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SMELLS AS SWEET AS

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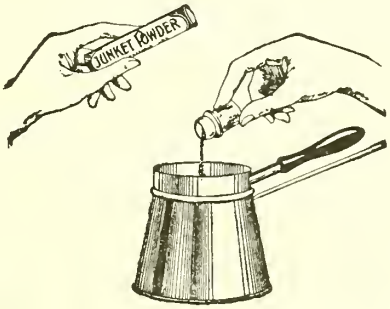

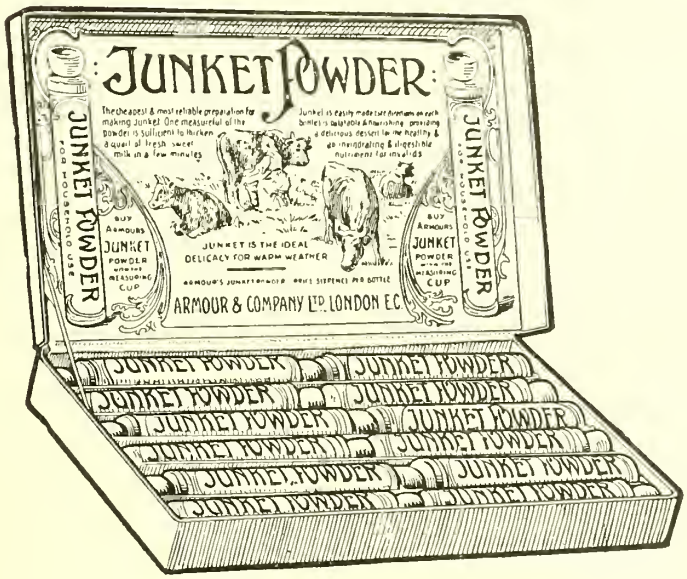

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5

9

10

14

19

21

24

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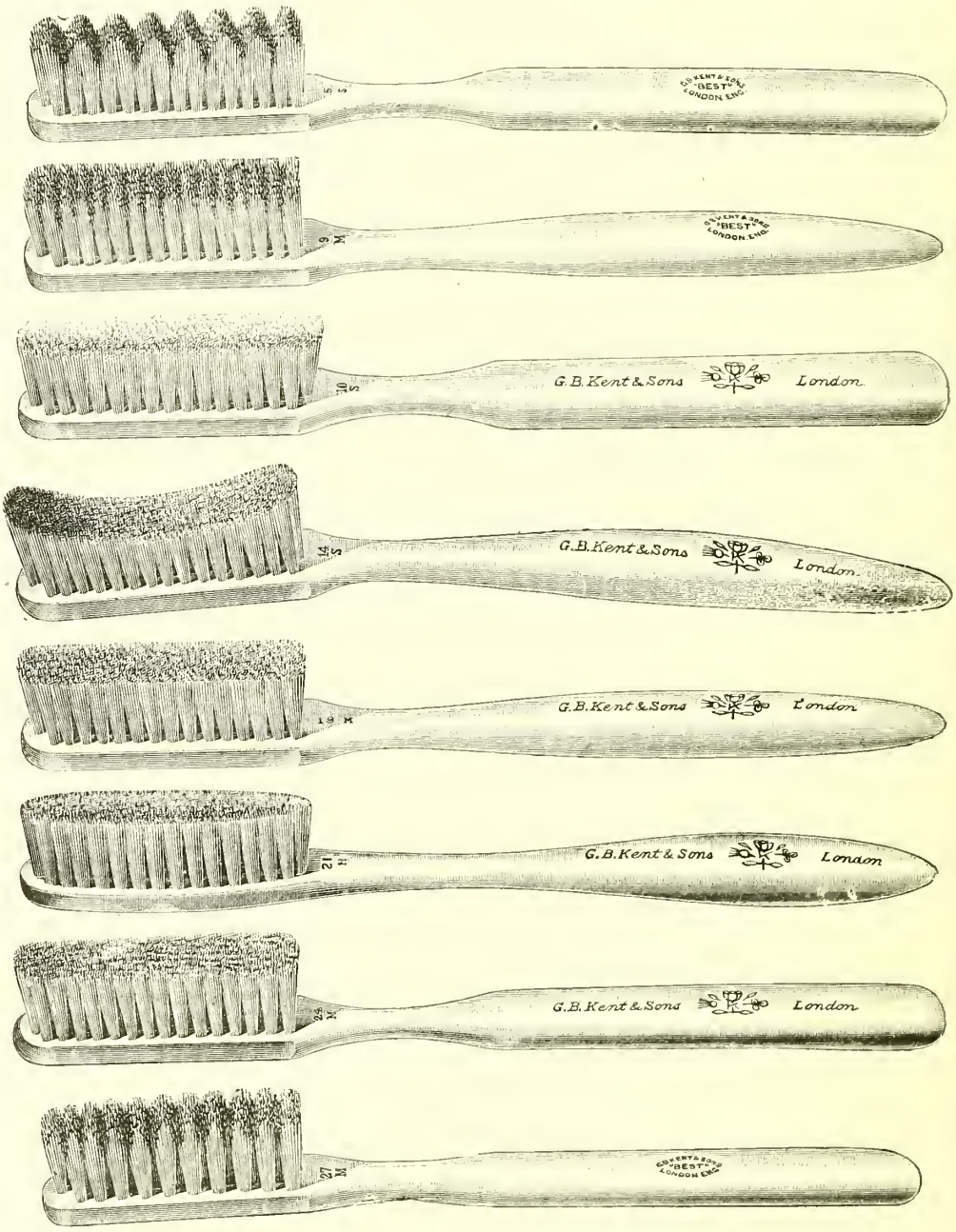

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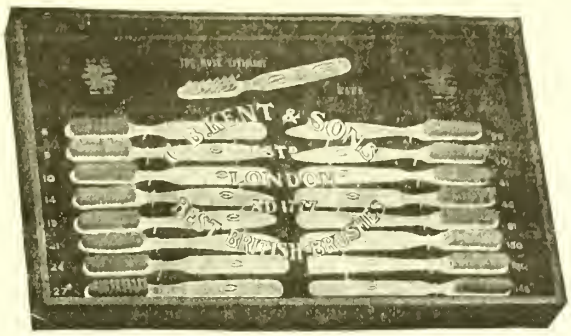

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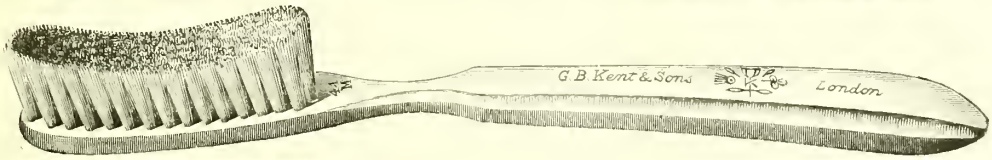

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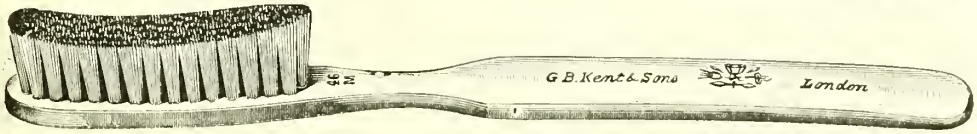

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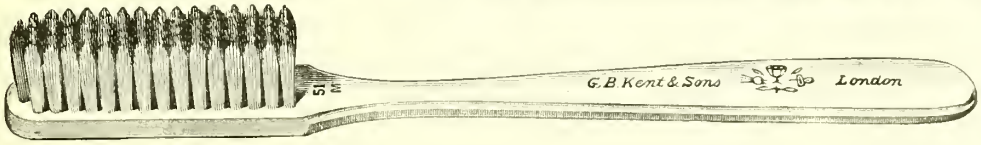

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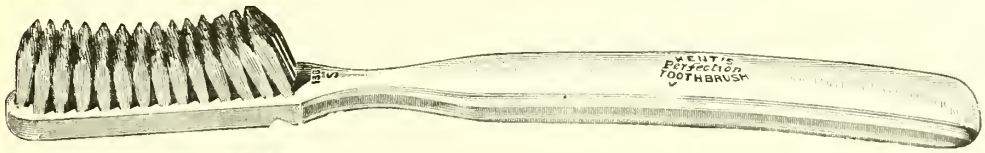

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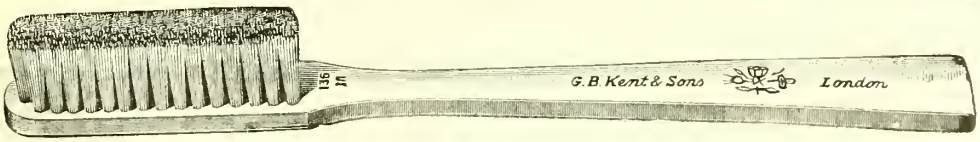

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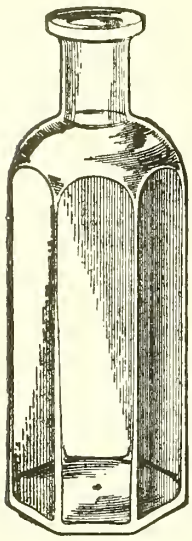

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THE BEST FOR

SPECIALITIES AND PREPARATIONS.

The several flat sides have the effect of brilliantly reflecting the contents, thus greatly increasing the natural brightness of the preparation. This is evident when seen in a good light, as in a shop window. A good, attractive bottle, well labelled and finished, frequently sells a preparation.

PRICES PER GROSS.

	½-oz.	1-oz.	1½-oz.	2-oz.	3-oz.	4-oz	6-oz.	8-oz.	10 oz.	12-oz.	16-oz.	20-o
W.G. "Ideals"	4/10	5/5	6/2	7/-	7/10	9/5	11/7	14/-	16/8	18/3	23/8	29/-
Amber and Actinic "Ideals"...	5/8	6/2	7/-	7/10	8/7	10/3	13/2	15/1	18 3	19/11	25/10	31/
W.G. "Ideals" Stoppered ...	19/11	20/5	21/6	22/-	23/5	25/10	30/1	33/10	36/7	39/9	47/4	51/
Amber and Actinic "Ideals" Stoppered	20/5	21/6	22/4	23/1	24/2	27/5	31/9	35/6	39/3	41/11	50/6	55/1

Compare these quotations with those of other bottles, especially the stoppered ones.

TEST THE "IDEAL" BOTTLE BY PLACING THE SAME LIQUID IN AN "IDEAL" AND AN ORDINARY ROUND BOTTLE OF THE SAME SIZE, AND SEE THE DIFFERENCE IN APPEARANCE.

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Scrubb & Co., Ltd.

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Sim, Ltd.

ANÆSTHETICS
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.

ANALYTICAL CHEMICALS
Hopkin & Williams Ltd.

ANILIN DYES
Crawshaw, E., & Co

ANNATTO
Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd.

ANTI-RHEUMATIC RINGS
Burge, Warren & Ridgley, Ltd

ANTISEPTICS
Chemische Fabrik von Heyden
Sanitas Co., Ltd.

ARTIFICIAL LIMBS
Ferris, J. & E.
Haywood, J. H., Ltd.
Maw, S., Son & Sons

ASTHMA REMEDIES
Barclay & Sons, Ltd.
Hair, B. W., & Son
Lofthouse & Saltmer, Ltd.
Potter & Clarke, Ltd.

BALSAMS
Dodge & Olcott Co.

BATH GLOVES
Solport Bros.

BATHING CAPS
Jas. Tompkins, Ltd.

BAY RUM
Knox Walker, J., & Co., Ltd

BED SHEETING
Ingram, J. G., & Son

BEETLE EXTERMINATORS
Danysz Virus, Ltd.

BISMUTH SALTS
Alliance Drug & Chem. Co
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Morson, T., & Son
Tyrer, T., & Co., Ltd.
White, Alfred, & Sons

BODY BELTS
Haywood, J. H., Ltd
Schutse, F., & Co., Ltd.
Wood, Vincent

BOOKS, &c.
Lewis, H. K.
Martindale's "Extra Pharm
Palmer, Sutton & Co.
Squire's "Companion"

BORAX
Borax Consolidated Ltd.

BOTANIC DRUGGISTS
Newball & Mason
Potter & Clarke, Ltd.

BOTTLES, JARS, &c., GLASS
Barnett & Foster
Beatson, Clark & Co., Ltd.
Bush, H. W., & Co., Ltd.
Ferry, T., & Son, Ltd.
Gausch, J. B.
"Ideal" Bottle
Isaacs, I., & Co.
Maw, S., Son & Sons
Melin, C., & Co.
Orrock, R., & Co.
Poths, H., & Co.
Swales, Thomas
Universal Bottle Co
Fouldon, E., Ltd.
Zahradnik, Jos.

BOXES
Ford, Shapland & Co.
Glover, C. H., & Co., Ltd.
Robinson & Sons, Ltd.
Rogers & Co.
Stipendum Stopper Co.
Waide, T., & Son

BOXES, GREASEPROOF
Rogers & Co.

BRUSHES
Bidwell, Bidwell & Co., Ltd.
Hovenden, R., & Sons Ltd.
Kent, G. B., & Sons, Ltd.
"Koh-i-Noor"
Maw, S., Son & Sons
Pitterton & Howard
Turner, Son & Co., Ltd.

BUTTER COLOURING
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

CACHETS AND APPARATUS
Christy, Thos., & Co.
Clark, Cicero S.
Lorimer-Marshall, Ltd.
Warrick Brothers

CACHOUS
Potter & Clark, Ltd.

CACODYLATES
Roques, Ferdinand

CALF LYMPH
Heinemann, W.

CAMERAS
Butcher, W., & Sons, Ltd.
Griffin, John J., & Sons, Ltd.

CAMOMILE OIL
Jackson, John, & Co.

CAMPHOR
Alliance Drug & Chemical Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Whiffen & Sons, Ltd.

CAPS FOR BOTTLES, &c.
Airtight Capsules Co., Ltd.
Betts & Co., Ltd.
Carter, Wilkinson & Co.
Smith Bros & Co.
Venesta, Ltd.
Vincose Co. (Self-fixing)

CAPSULED PILLS
McKesson & Robbins

CAPSULES (VARIOUS)
Denoual, Jules, & Co.
Evans Sons Lescher & Webb,Ltd.
Mawson & Co.
Stevenson, H. E., & Co.
Tye, John, & Son
Warrick Bros.

CASH TILLS
British Machine Co. Ltd.
Gledhill, G. H., & Sons, Ltd.
National Cash Register Co., Ltd.

CATHETERS
Mawson Bros. & Chapman
Warne, Wm., & Co., Ltd

CAUSTIC SODA
Brunner, Mond & Co., Ltd.

CEMENTS
Kay Bros, Ltd.

CHALK, PRECIPITATED
Levermore, A., & Co., Ltd.
Mumford, G. S., & Sons
Nichols Chemical Co., Ltd.
Sturge, John & E., Ltd.

CHAULMOOGRA OIL
Smith, Stanistreet & Co.

CHEMICAL PLANT
Crawshaw, E., & Son, Ltd.

CHEMICAL REAGENTS
Hopkin & Williams, Ltd.

CHEMICALS
Bayer Co., Ltd.
Bramwell, E., & Son
British Drug Houses, Ltd., The
Brunner, Mond & Co., Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Chemische Fabrik von Heyden
Corbyn, Stacey & Co., Ltd.
Curling, Geo., Wyman & Co.
Evans Sons Lescher & Webb, Ltd
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Knoll & Co., Ltd.
May & Baker, Ltd.
Merck, E.
Morson, T., & Son
Riedel, J. D., Co.
Sturge, John & E., Ltd.
Tyrer, T., & Co., Ltd.
Washington Chemical Co., Ltd.
Whiffen & Sons, Ltd.
White, A., & Sons
Widenmann, Broicher & Co.,Ltd.

CHLORATES, PER-CHLORATES
Société d'Electro-Chimie

CHLORIDE OF LIME
Brunner, Mond & Co., Ltd.

CHLORODYNE
Davenport, J. T., Ltd.

CHLOROFORM
Burroughs Wellcome & Co.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Smith, T. & H., Ltd.

CIGARS AND CIGARETTES
Singleton & Cole, Ltd.

CITRIC ACID AND CITRATES
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Howards & Sons, Ltd.
Sturge, John & E., Ltd.

CLINICAL THERMOMETERS
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Hicks, James J
Maw, S., Son & Sons
Perken, Son & Co., Ltd.
Pillischer, J.
Powell, J. T., & Co.
Real, G. H.

CLOTH BALLS
O'Neil, Betts & Co.
Senier, Alf., & Co.

COAL TAR SPECIALITIES
Wright, Layman & Umney, Ltd.

COCAINE
Boehringer, C. F., & Soehne
Buehler & Co.
Merck, E.

COCKROACH PASTE
Howarth & Fair

COCOA
Cadbury Bros., Ltd.
Plasmon, Ltd.

COD LIVER OIL
British Drug Houses, Ltd., The
Bugge, Johann, & Co.
Evans Sons Lescher & Webb, Ltd.
Southall Bros. & Barclay, Ltd.
Sparks, White & Co., Ltd.
Wright, Layman & Umney, Ltd.

COLLAPSIBLE TUBES
Betts & Co., Ltd.
Venesta, Ltd.

COMBS
Gripwell
Hovenden, R., & Sons, Ltd.
Simplex Conduits, Ltd.

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Adair, Mrs.

CONDENSERS
Bennett, Sons & Shears, Ltd.

CONFECTIONERY, MEDICATED
Guest, Thos., & Co.
Pascall, James, Ltd.

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Bresillon, M., & Co.
Kopp & Joseph
Roberts & Co.
Schacht, Warner & Co.
Wilcox, Joseau & Co.

COPPERSMITHS
Braithwaite, H., & Co.

CORKS
Mitchell, N. W., & Sons, Ltd.

CORN EXTERMINATOR
Gardner

CORN PLASTERS
Beiersdorf, P., & Co.
Solport Bros.

CORRUGATED PAPER
Brightling, Geo. C., & Co., Ltd.

COUNTER ADJUNCTS
Evans Sons Lescher & Webb, Ltd

COUNTER SPECIALITIES
Allen & Hanburys, Ltd.
British Drug Houses, Ltd., The
Burgoyne, Burbidges & Co.
Curling, Geo., Wyman & Co.
Newlett, C. J., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ltd.

COUNTING AND FILLING MACHINE
Forgrove Machinery Co., Ltd.

COURT PLASTER
Solport Bros.

CREOSOTE
Baiss Bros. & Stevenson, Ltd.
Morson, T., & Son

CREPE BANDAGES
Gimber, W., & Son
Burge, Warren & Ridgley, Ltd.
Norwich Crepe Co. (1856), Ltd.
Wood, Vincent

CYANIDES
May & Baker, Ltd.

DAIRY SPECIALITIES
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.

DENTAL MECHANICS
Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Wardale, F. C., & Co.

DENTAL TOOLS, &c.
Claughtons, Ltd.
Edwards' Dental Mfg. Co., Ltd.

DENTIFRICES
Beecham, T.
Bell (John), Hills & Lucas, Ltd
Beiersdorf, P., & Co.
Berliner, Arthur
Blackie, Robert
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Eucryl, Ltd.
Gibbs, D. & W., Ltd.
Hayden Coffin T. P.
Jewsbury & Brown
McKesson & Robbins
Maw, S., Son & Sons
Odol Chemical Works
Parke, Davis & Co.
Standard Tablet & Pill Co., Ltd
Woolley, J., Sons & Co., Ltd.

DEVELOPERS (PHOTO)
Evans Sons Lescher & Webb, Ltd.
Express Developing Co.
Johnson & Sons (Mfg. Chts.)

DEXTRINE
Fink, F., & Co.

DIABETIC FOODS
Scott, R. M.
Van Abbot, G., & Sons

DIGESTIVE PRODUCTS
Fairchild Bros. & Foster

DISINFECTANTS
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Chemical Union, Ltd.
Condy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Hillson, Henry, Ltd.
Sanitas Co., Ltd.
Stevenson, H. E., & Co.
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd.

DISINTEGRATORS
Hardy Patent Pick Co., Ltd.

DRUGGISTS' SUNDRIES
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Brook, Parker & Co., Ltd.
Brytstele Manfg. Co.
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Quelch, H. C., & Co.
Sangers
Schutze, F., & Co., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Swales, Thomas
Toogood, W., Ltd.
Toser, J. V.
Wattenbach, O.
Woolley, J., Sons & Co., Ltd.
Zinser, Alberto

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Burkett, Sharp & Co
Gathergood's Exor.
Goodall, Backhouse & Co.
Potter & Clarke, Ltd.
Schmitt & Wildenhaya
Zinser, Alberto

EARTHENWARE JARS, &c.
Fulham Pottery & Chem Filter Co., Ltd.

EAU DE COLOGNE
Bronnley, H., & Co., Ltd.
Farina, J. M.
Farina, J. M. (No. 6)
Fiskus, Courtenay & Co.
McCracken, J. & R.
Schutze, F., & Co., Ltd.

EDUCATIONAL INSTITS.
Bath & West of England College
Birmingham & Midland College
Charleston, J.
College of Preceptors
Elt's College
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
South of England College
Westminster College

EFFERVESCENT PREPS.
Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
Bristol-Myers Co
British Drug Houses, Ltd., The
Dupal, Ltd.
Evans Sons Lescher & Webb, Ltd.
Guest, Thos., & Co.
Kerfoot, Thos., & Co.
Lorimer-Marshall, Ltd.
Shirley Bros., Ltd.
Wright, Layman & Umney, Ltd.
Wyleys, Ltd.

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Wood, Vincent

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Evans Sons Lescher & Webb, Ltd
Millard Bros., Ltd.
Simplex Conduits, Ltd.
Tokalon, Ltd.
Ward & Goldstone
Wright, Archd. J., Ltd.

EMERY AND CLOTH
Oakey, J., & Sons, Ltd.

EMETINE SALTS
Macfarlan, J. F., & Co.
Whiffen & Sons, Ltd.

EMULSIFIERS
Bennett, Sons & Shears, Ltd.
Boothroyd, H. T., Ltd.
Wilkinson, S. W., & Co.

EMULSIONS, C.L.O., &c.
Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd
Blackie, Robert
Boulton Macro, Ltd.
British Drug Houses Ltd.
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.
Stevenson, H. E., & Co.
Wyleys, Ltd.

ENAMELLED HOSPITAL REQUISITES
Orme, Evans & Co., Ltd.

END RUNNER MILLS
Hardy Patent Pick Co., Ltd.

ENEMAS
Burge, Warren & Ridgley, Ltd
Ingram, J. G., & Son
Warne, W., & Co., Ltd.

EPSOM SALTS
Howards & Sons, Ltd.
May & Baker Ltd.

ESSENCES, SOL. AND FRUIT
Alliance Drug & Chem. Co.
Burnett & Foster
Beats Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd
Hag, Wm., Ltd.
London Essence Co.
Sinalco Co.
Stevenson & Howell, Ltd.

ETHERS
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL
British Drug Houses, Ltd., The
Stevenson, H. E., & Co.
Tasmanian Eucalyptus Oil Co

EVAPORATORS
Fershaw, E., & Son, Ltd.

EXTRACT OF HERBS
Newball & Mason
Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL)
Allen, Stafford, & Sons, Ltd.
Burroughs Wellcome & Co
Curling, Geo., Wyman & Co.
Evans Sons Lescher & Webb, Ltd
Gathergood's Exor.
Newlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son, Ltd.

FACTORY, &c., SITES
Great Western Railway

FEEDING BOTTLES
Bush, H. W., & Co., Ltd.
Schutze, F., & Co., Ltd.

FILLING MACHINES
Forgrove Machinery Co., Ltd.
Roberts' Pat. Filling Machine Co

FILTERS
Berkefeld Filter Co., Ltd.

FLYCATCHERS
Aerozon Fly-catcher Works
Alabastine Co. (British), Ltd.
Brown Manfg. Co., Ltd.
Ford Shapland & Co.
Way Bros., Ltd.
Smith, Jno. H., & Co.
Sunbridge & Wright

FOODS, INVALID, &c.
Allen & Hanburys, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Bransvim Co.
British Casein Co. (1911), Ltd.
Fairchild Bros. & Foster
Fletcher, Fletcher & Co., Ltd.
Frame Food Co.
Barker, Stagg & Morgan, Ltd.
Horlick's Malted Milk Co.
Lathouse & Saltmer, Ltd.
Natural Food Co., Ltd.
Nestlé, Ltd.
Petermann Bros.
Plasmon Ltd.
Ridge's Royal Food Mills
Sister Laurus Infant Food Co.
Southall Bros. & Barclay, Ltd.
Wander, A., Ltd.
Willows, Francis B. & T.
Wolley, Jas., Sons & Co., Ltd.

FOOT APPLIANCES
Schell Mnfg. Co., Ltd.

FULLER'S EARTH
Mumford, G. S., & Sons

FUMIGATORS
Sanitas Co., Ltd.

GINGER WINE
Sleggs & Co.

GLASSWARE, CHEMICAL
Williams, E., & Co.

GLYCERIN
Price's Patent Candle Co., Ltd.

GLYCEROPHOSPHATES
Anglo-American Pharm. Co.
Merck, E.

GREASE REMOVER
Perkin & Co., Ltd

GRINDERS, DRUG, &c.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis B. & T.

GRINDING MACHINERY
Hardy Pat. Pick Co., Ltd.

GRIPE WATER
Woodward, W., Ltd.

GUMS
Fink, F., & Co.
Kidston, W. M., & Co.

HAIR DYES
Barker, Stagg & Morgan, Ltd.
Exor Walker, J., & Co., Ltd.

HAIR PREPARATIONS
Alexandre, L.
Blackie, Robert
Edward's "Harlene" Co.
Harrison, G. W.
Knoll & Co., Ltd.
Lindner, M
Osborne, Garrett & Co.
Rohare's Aureoline
Sangers
Thompson & Capper, Ltd.
Tokalon Ltd.

HAND CARTS, TRUCKS, &c.
Crewe & Co.

HAT CLEANERS
Christy Thos., & Co.
Eck, Ernest, & Co.
Milner's Chemical Co.
Senier, Alfred, & Co.

HAT DYES
Whitaker & Co.

HERBS
Potter & Clarke, Ltd

HOMŒOPATHIC MEDICINES
Ashton & Parsons Ltd.
Keene & Ashwell, Ltd
Leath & Ross

HORSE REMEDIES
Harvey & Co (Dublin), Ltd.

HOT-AIR DOUCHES
Ward & Goldstone

HOTELS
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES
Burge, Warren & Ridgley, Ltd
Fulham Pottery & Cheavin Filter Co., Ltd.
Galen Manfg Co., Ltd
Schutze F., & Co., Ltd
Toogood William, Ltd
Wood Vincent

HYDROGEN PEROXIDE
May & Baker Ltd
Sanitas Co., Ltd
Tyrer, T., & Co., Ltd

HYPNOTICS
Knoll & Co., Ltd.
Widenmann, Broicher & Co.,Ltd.

HYPOPHOSPHITES
May & Baker, Ltd
Morson, T., & Son
Tyrer, T., & Co., Ltd

ICHTHYOL
Ichthyol Gesellschaft

INK, DICHROIC
Bewley & Draper Ltd.

INSECT POWDER
Danysz Virus Ltd
Keating, Thomas
Potter & Clarke, Ltd

INSECTICIDES
Christy, T., & Co
Cook, E., & Co., Ltd

INSURANCE
London & Midland Insurance Co., Ltd.

IODIDES
Morson, T., & Son

JAPANESE SUNDRIES
Hardie, H D & Co

KEGS AND BARRELS
Venesta, Ltd.

LANOLINE
Burroughs Wellcome & Co

LARD
Ewen, J., & Sons

LAVENDER OIL
Jakson, John, & Co
Ransom, W., & Son, Ltd.

LAVENDER WATER
Bush, W. J., & Co Ltd

LECITHIN
Chem Works "Victoria"
Merck, E.

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb, Ltd
Goodall, Backhouse & Co
Idris & Co., Ltd

LINSEED, CRUSHED, &c.
Mumford, G S. & Sons

LINTS
Liverpool Lint Co
Maw, S., Son & Sons
Robinson & Sons Ltd
Vernon & Co., Ltd.

LIQUORICE JUICE
Apollo
Burgoyne Burbidges & Co
Drogueries & Huileries Anvers-oises, Ltd.
Evans Sons Lescher & Webb, Ltd
Jackson, Ernest, & Co
Mumford, G S., & Sons
Solassi

LITHIA SALTS
British Drug Houses, Ltd., The
Howards & Sons Ltd
Macfarlan, J. F., & Co
May & Baker, Ltd

LOOFAHS
Hall Forster & Co., Ltd.
Internl. Sponge Importers, Ltd
Solport Bros.
Swales, Thomas

LOZENGES
Blyton, Astley & Co.
Cartwright, W. B., Ltd.
Denonal, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros., Ltd.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd
Forgrove Machinery Co., Ltd
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd
Hardy Patent Pick Co., Ltd
Pindar, J. W., & Co.
Stokes, F. J., Machine Co
Thompson & Capper, Ltd
Wilkinson, S. W., & Co.

MAGNESIA AND PREPS.
Allen & Hanburys, Ltd
Ayrton, Saunders & Co., Ltd
Cox, Arthur H., & Co., Ltd
Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co
Tokalon, Ltd.
Washington Chemical Co., Ltd
Wigglesworth & Co.

MALT EXTRACT & PREPS.
Allen & Hanburys, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
British Drug Houses, Ltd., The
Burroughs Wellcome & Co.
Calder, James, & Co., Ltd
Corbyn, Stacey & Co., Ltd
Curling, Geo., Wyman & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd
Fletcher, Fletcher & Co., Ltd
Paine & Co., Ltd.
Pascall, James, Ltd.
Patermann Bros.
Saccharin Corporation, Ltd.

MARKING INK
John Bond ("Crystal Palace")

MEASURES, GRADUATED
Bush, H. W., & Co., Ltd.

MEAT EXTRACTS
Armour & Co., Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.

MEDICAL COILS
Ward & Goldstone

MERCURIALS
Alliance Drug and Chem. Co.
Howards & Sons Ltd
May & Baker, Ltd
Tyrer, T., & Co., Ltd
Whiffen & Sons, Ltd.

METHYLATED SPIRIT
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son Ltd.
Riddell & Smith
Thornley, Samuel, Ltd.

MILK SUGAR
Hollandsche Melksuikerfabriek

MINERAL WATERS, SALTS
Apollinaris Co., Ltd.
Ingram & Royle, Ltd.
Vichy-Celestins

MIXERS AND SIFTERS
Gardner, Wm., & Sons (Gloucester), Ltd.

MOTOR CARRIERS, VANS,&c.
Bentinck Motor Supply, Ltd
Tilling, Thomas, Ltd.

MUSTARD SEED OIL
Johnson, J H. & S.

MUSTARD PLASTER
Blyton, Astley & Co.
Rueff, Julius

NAIL POLISH PAPER, &c.
Pharm. Ind Ges. Offenbach

NAPHTHALINE
Burt, Boulton & Haywood, Ltd.

NICOTINE
Campbell, J. D.

NIGHT LIGHTS
Price's Patent Candle Co., Ltd

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co.
Boake Roberts & Co., Ltd.
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd
Jakson, John, & Co.
London Essence Co.
Lueders, George, & Co.
Poppelreuter, W.
Ransom, W., & Son, Ltd.
Schimmel & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ltd

OILS, MINERAL, FATTY, &c.
Allen, Stafford, & Sons, Ltd
Price's Patent Candle Co.
Stern Sonneborn Oil Co., Ltd

OINTMENTS
Blackie, Robert
Burgess, E.
Oldfield, Pattinson & Co.

OPTICAL GOODS
Botwright & Grey
Darton, F., & Co.
Nitsche & Gunther Opt. Co., Ltd
Standard Optical Co.

OPTICAL TUITION
British Optical Institute, Ltd.
College of Optics
Spectacle Makers Company

ORANGE & QUININE WINE
Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

ORGANIC SOLVENTS
Hopkin & Williams, Ltd.

OTTO OF ROSE (SYNTH.)
Bush, W. J., & Co., Ltd.
Givaudan, L.
Kerfoot, Thos., & Co.
Stevenson & Howell, Ltd.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ltd

OVERALLS
Lilywhite, Ltd.

PACKED GOODS
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Curling, Geo., Wyman & Co.
Davies, Sons & Co
Evans Sons Lescher & Webb, Ltd
Goodall, Backhouse & Co.
Harker, C. R., Stagg & Morgan
Lofthouse & Saltmer, Ltd.
Lorimer-Marshall, Ltd.
May, Roberts & Co., Ltd.
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd
Sangers
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Standard Tablet & Pill Co., Ltd
Toogood, W., Ltd.

PALATINOIDS
Oppenheimer, Son & Co., Ltd

PAPER HANDKERCHIEFS
Powell, J T., & Co

PARAFFINUM LIQUIDUM
Burgoyne, Burbidges & Co.
Price's Patent Candle Co., Ltd
Schliemann's Oil & Ceresine Co
Stern Sonneborn Oil Co., Ltd

PASTILLES
Allen & Hanburys, Ltd.
Asche, C. S., & Co.
Blyton, Astley & Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd
Guest, Thos., & Co.
Kerfoot, Thomas, & Co.
Warrick Bros., Ltd.

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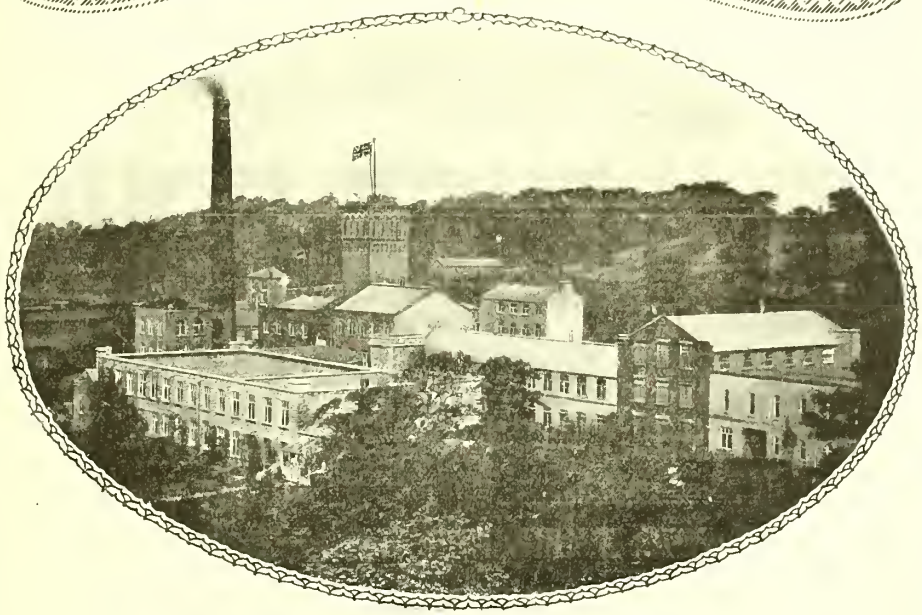

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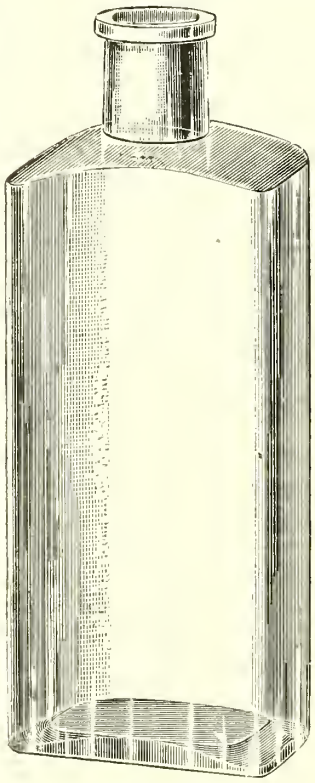

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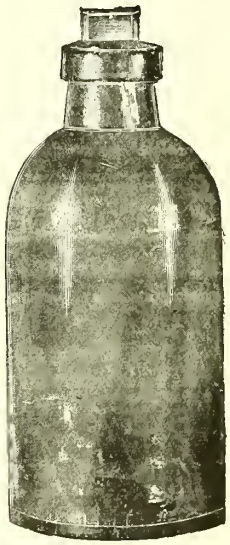

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Maw's Page.

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MONTREAL, 396 St. Paul Street.
MEXICO CITY, Av. Independencia 10.

Letters address: P.O.B. 1498 NEW YORK. Cable address: "GUALACUM."

Import and Export:

Essential Oils, Olive Oil, Vanilla Beans,
Natural and Synthetic Perfumers' Materials.

OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.
Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6, per Bottle,
ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
THOMAS WEST & SON, 1187 Chester Road, Stretford. **MANCHESTER.**

W.B. 58.
34/2 per dozen.

Long cut, pure white mixture of Bristle and fine cut Whalebone. Small holes. Well finished. A Brush that is in great demand on account of the general satisfaction it gives.

Our connection having increased so largely of late, we have been obliged to move to larger premises. After May 23 please address as follows—

TURNER, SON & CO., Ltd.,
97a Carysfort Road, Clissold Park, London, N.

SILMERINE

HAIR-CURLING FLUID 22/6 PER DOZEN.

P.A.T.A. 2/6

ORDER FROM YOUR WHOLESALER UNDER OUR USUAL GUARANTEE TO TAKE BACK ANY SURPLUS STOCK AND **REFUND** CASH.

Toilet Specialties

		Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP	a complexion soap	10/–	1/–
PROLACTUM	for the lips	10/–	1/–
PARSIDIUM JELLY	for wrinkles	10/–	1/–
ALLACITE OF ORANGE BLOSSOM	a dressing cream	22/6	2/6
BORANIUM	a hair tonic	22/6	2/6
CLEMINITE	for a face lotion	22/6	2/6
COLLIANDUM	for a face tint	22/6	2/6
TEKKO PASTE	camphor cream	22/6	2/6
ONALITE	a foot powder	22/6	2/6
PERGOL	a deodorant	22/6	2/6
STALLAX	for a shampoo	22/6	2/6
JETTALINE	for clearing the skin	31/6	3/6
PHEMINOL	a depilatory	36/–	4/–
MENNALINE	for the eyelashes	36/–	4/–
MERCOLIZED WAX	a face cream	31/6	3/6
SILMERINE	hair curling fluid	22/6	2/6

Stocked by all Wholesale Houses

Colonial and Foreign Distributing Agents :—

AUSTRALIA.

FELTON GRIMWADE & CO. ... ... MELBOURNE
DUERDIN & SAINSBURY ... ...
ELLIOTT BROS. ... . SYDNEY
WASHINGTON H. SOUL PATTINSON & CO. .. ..
TAYLOR & COLLEGE, LTD. ... ... BRISBANE
ELLIOTT BROS. & CO. ... ...
HATTON & LAWS ... ... LAUNCESTON
F. H. FAULDING & CO ... ... PERTH
FELTON GRIMWADE & BICKFORD ... .
A. M. BICKFORD & SON ... ... ADELAIDE

NEW ZEALAND.

SHARLAND & CO. ... AUCKLAND and WELLINGTON
KEMPTHORNE, PROSSER & CO. / THE NEW ZEALAND DRUG CO. — DUNEDIN, CHRISTCHURCH, AUCKLAND and WELLINGTON

SOUTH AFRICA.

LENNON & CO., LTD. ... ... CAPE TOWN
SIEVE BROS. & KARNOVSKY ... JOHANNESBURG

INDIA.

KEMP & CO., LTD. ... ... BOMBAY
SMITH, STANISTREET & CO. ... ... CALCUTTA

ITALY.

H ROBERTS & CO. ... ... FLORENCE

FRANCE.

SCOTT & CO. ... ... PARIS

GERMANY.

DEARBORN GESELLSCHAFT M.B.H. ... ... BERLIN

HOLLAND.

BROCADES & STHEEMAN ... ... MEPPEL

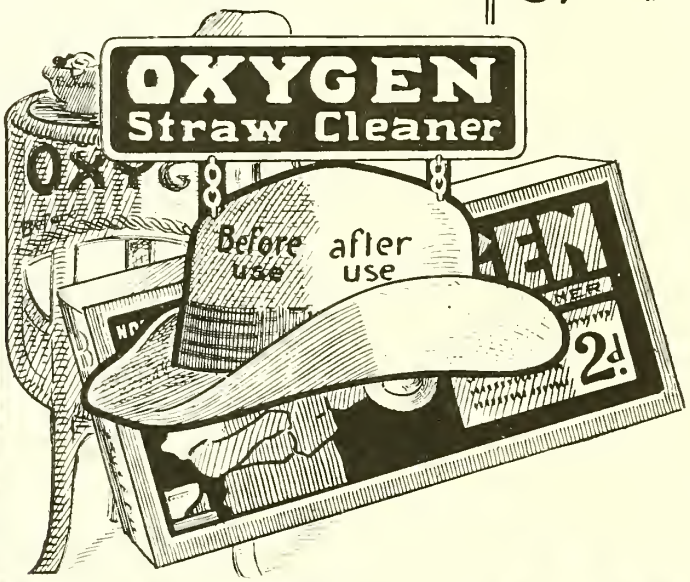
BELGIUM.

M. L. SANDERS & CO. ... ... BRUSSELS

DEARBORN LIMITED, 32-34 THEOBALD'S ROAD, W.C.

AN ATTRACTIVE WINDOW SHOW

With every ½-gross lot (cash with order) sent out during this month, we are FOR **6/-** enclosing a quantity of highly artistic advertising material for window display.



Our cartons, cut-outs, boxes and packets are unique. They brighten up the window and bring in fresh customers every day.

OXYGEN STRAW HAT CLEANER

Sells on sight and gets repeat orders on its merits. It gives back the natural tint to the straw—quite different to the "oxalic colour."

12/- A GROSS, Carriage Paid.

ERNEST ECK & CO.,
20 Bournvale Rd., Streatham, S.W.

DRUGGISTS' TURNED WHITE WOOD BOXES

(ENGLISH MANUFACTURE)

OF EVERY DESCRIPTION.

Pill Boxes.

These Boxes are made from Selected White Willow Wood & finely finished.

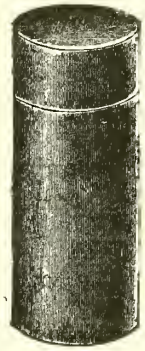
They are very cheap, from 1/- per gross upwards, WOODEN BOTTLES & VIALS also from 1/- per gross upwards.

Inventors & Patentees of

Silicated Grease-proof Boxes.

A boon to Ointment Manufacturers.

A perfect substitute for a Covered Pot.



Wooden Vials.

Unbreakable and very light and saves half the duty in Countries where it is charged on the gross weight.

SILICATED GREASE PROOF PATENT BOXES

See that each Silicated Box is Stamped on the bottom with our Stamp, to avoid worthless imitations.

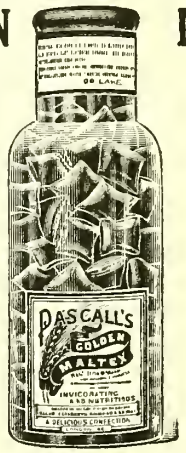
Price List and Samples on application.

ROGERS & CO., Carter St., Walworth, LONDON, S.E.

PASCALL'S

GOLDEN MALTEX

Contains 25% Pure Malt Extract



of especial food value for Children.

6d. & 1/- BOTTLES.

4 OZS. 3½d.

¶ Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

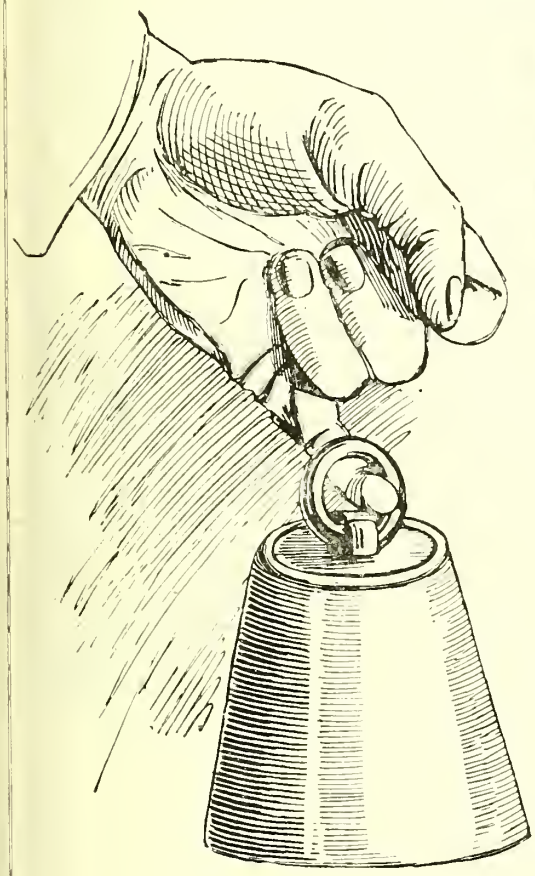
¶ Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.

ONLY THE MINIMUM EFFORT

on your part

is required to sell



Euthymol
TOOTH PASTE

WHY ?

BECAUSE Euthymol Tooth Paste possesses decay-preventing properties, and renders unequalled service to the user.

These facts are being widely advertised.

INCIDENTALLY, the dealer who buys in six-dozen lots nets a profit of nearly 5d. per sale (4/11 per dozen).

5d. PROFIT PER TUBE
on an article of definite, unequalled merit !!

The public like the fixed price of 1/-.

The Protected Profit is more than enough to repay you for your active interest at the counter, moreover

We will Co-operate with You
and help you to increase your sales.

SEND YOUR ORDER NOW, AND ENLIST OUR AID.

PARKE, DAVIS & CO., T.J. 9, 50-54, Beak Street, LONDON, W.

A PREPARATION made from the finest ingredients and presented in a tasteful manner is **CALCULATED TO DO YOU CREDIT.**

Ciola Tooth Powder makes a
TWOFOLD APPEAL TO THE RETAILER
on account of its

Good Buying Points & Good Selling Points.

It makes
A CREDITABLE SHOW
Is
ONE YOU CAN SAFELY RECOMMEND
OFFERS A GOOD MARGIN OF PROFIT
SECURES REGULAR CUSTOMERS

Additional advantages:
PROTECTED PRICES and GENEROUS TERMS.

6d. tins 3/6 per doz. } less our usual discounts
1/- tins 6/- „ „ }

NICE APPEARANCE
VALUE FOR MONEY
DELICATE AROMA
PURITY OF INGREDIENTS
PERFECTION OF ADMIXTURE AND FINISH
ANTISEPTIC CHARACTERS
very pleasant, not poisonous.

CIOLA
Tooth Powder

In Tins **6d.** and **1/-.**

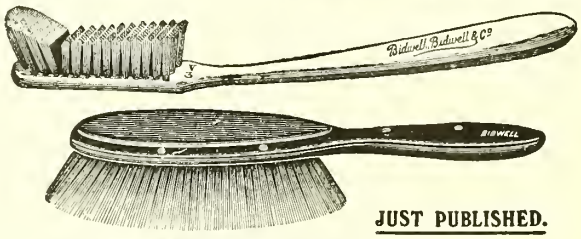
Absolutely free from poisons or colouring matter.

We are so convinced of its merits that we are prepared to offer a SPECIAL BONUS of one dozen 6d. tins free to each new customer on receipt of orders for not less than 3 dozen 6d. tins.

F. SCHÜTZE & Co., Ltd., Black Bull Works, Caledonian Market, London, N.

Established 1839.

BIDWELLS' TOILET BRUSHES



GOLD MEDAL
awarded
International Exhibition

Australian Agents:
Potter & Birks, Ltd., Sydney.
Rocke, Tompsitt & Co., Melbourne.
U.S.A. Agents: Druggists' Supply Corporation, 118 William Street, New York.
Canadian Agents:
H. F. Ritchie & Co. Toronto, etc.

BUSH LANE HOUSE, CANNON STREET, E.C.

JUST PUBLISHED.

Send for **NEW CATALOGUE.** It will interest you!

Works—
AXMINSTER, DEVON.

Please Try Our DISPENSING BOTTLES & PHIALS

We send six gross assorted or otherwise, carriage paid, to any address in the United Kingdom. Smaller quantities not carriage paid.

REDUCED PRICES.

Clear Blue Tinted.—Good Quality.

3 & 4	6 & 8	12	16 ozs. Plain or graduated, round edges
8/-	9/-	13/-	18/- per gross.

Clear Blue Tinted. Best Quality. QUININE.

3 & 4	6 & 8	12	16 ozs. Plain or graduated, round edges
10/-	11/-	16/-	20/- per gross.

CHEAP BOTTLES for Dispensing.

3 & 4	6	8 ozs Plain or graduated, round edges.
7/-	8/3	8/6 per gross

WHITE PHIALS—GOOD QUALITY.

½	1	1½	2 ozs. Plain or teaspoons.
4/-	4/6	4/9	5/3 per gross.

I. ISAACS & CO.,
106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.,
or ISLINGTON BOTTLE COMPANY, 7 New Inn Yard, Tottenham Court Road, London, E.
Orders sent to either establishment have attention
Established 100 Years.

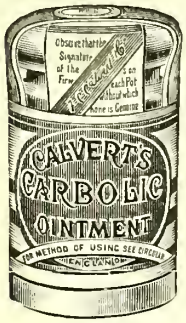
WILLIAM LASSON'S
Hair Elixir
has a 30 years' reputation as a
Unique Hair Producer.
All wholesale houses supply it.
Chemists & Druggists
should apply for
COLOURED ART PRINT,
a great help in pushing its sale.
Post free. Write to-day to
Sole Consignee:
M. LINDNER,
FARRINGDON AVENUE, LONDON, E.C.

Stock those articles which your customers ask for — and which they will want again. Of course

CALVERT'S

Carbolic Tooth Powder

occupies a prominent place amongst these.



Also the other various Carbolic Specialities:— Soaps, Ointment, Disinfectants, &c., made by

F. C. CALVERT & CO., MANCHESTER, ENG.

Branch Offices at

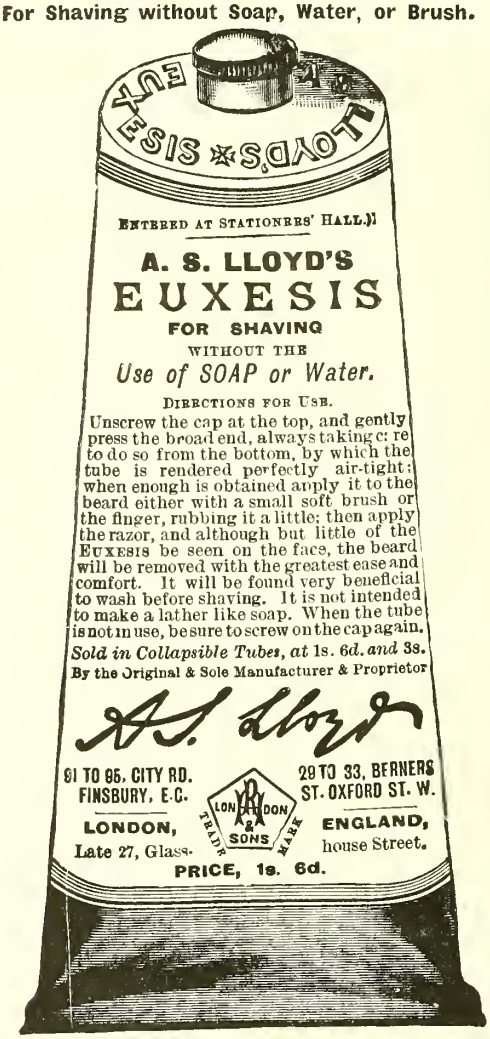
5 & 6 Australian Avenue, LONDON.
349 Dorchester Street West, MONTREAL.

Full illustrated price list post free on request.

A. S. LLOYD'S EUXESIS

(THE GENUINE.)

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

10/- *per dozen,* **9/6** *by the* 3 *dozen,* **9/-** *by the* 6 *dozen.*
Retails at **1/6** *the Tube;* **3/-** *size to order.*

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as Illustration.

Proprietors: **R. HOVENDEN & SONS, LTD.,**
LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.

The True Pharmacist takes a discriminating interest in the Proprietary Articles he sells.

JEWSBURY & BROWN'S

ORIENTAL

TOOTH POWDER,

6d. and 1/-

in the New Container,

is a First-class & Profitable Article.

JEWSBURY & BROWN, Ardwick Green, MANCHESTER.

3

LATEST FINE SELLING **NOVELTY**

HAYDEN COFFIN

TOOTH POWDER

COMPRESSED, PTD.

(From a Prescription of his father, Dr. C. R. COFFIN).

NOT A SOAP. NOT A PASTE. UNIQUE ARTISTIC PUT-UP.

Now on Sale at

BARKER'S, HARRODS', SELFRIDGE'S, WHITELEY'S, ARMY & NAVY STORES, and leading WEST-END CHEMISTS'.

ALSO THE

HAYDEN COFFIN

HYGIENIC TOOTH BRUSH (Rgd.)

Retail Prices:

POWDER, 2s. 6d. BRUSH, 1s. 1d.

Trade Supplied by

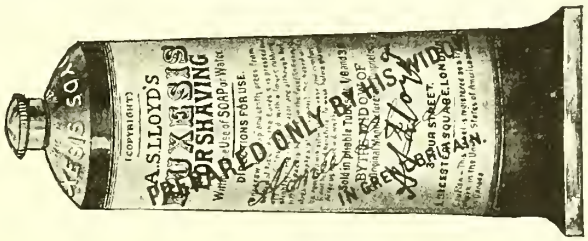
HAYDEN COFFIN T. P.
39 VICTORIA STREET, LONDON, S.W.

A. S. LLOYD'S EUXESIS

For Shaving without Soap, Water, or Brush.

CAUTION to the TRADE

Labels on the **genuine EUXESIS** not only bear signature of A. S. Lloyd in **Black Ink,** but also **"Prepared only by his Widow and signature of 'Aimee Lloyd'"** in **RED.**



Sole Manufacturers and Proprietors :

AIMÉE LLOYD & Co.,

23 PANTON STREET
(Formerly named SPUR STREET),

HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

£5 REWARD!

is what we offer you in profits on each gross sold of

ROYAL COURT HAIR DYES,

and greater still is the margin if you take advantage of our window show bonus offer :—

	Cost Price.	Selling Price.
1 gross 1/3 size Royal Court Hair Dyes	£4 10 0	£9 0 0
1 doz. " " " bonus for window show	—	0 15 0
¼ doz. 2/- size " " " " " "	—	0 6 0
	4 10 0	10 1 0
Less 5% cash 7 days	0 4 6	4 5 6
	4 5 6 showing	5 15 6 PROFIT.

OUR sales for the past ten years have steadily increased until our certified figures for 1912 showed an output double any previous twelve months' record. In seven months' trading last year we reached the figures of 1912. As we do not advertise direct, this is a proof of the merit of Royal Court Hair Dyes and the satisfaction we give our customers in reasonable profits.

SELL THE BEST AND GIVE YOUR CUSTOMERS SATISFACTION.

J. KNOX WALKER & CO., LTD., 422 Kingsland Road, London, N.E.

"A Bottle of Anzora, Please!"

If you have not already had this demand you shortly will have, for "Anzora Cream" is being extensively advertised both in the Press and on the Railways—every day thousands of prospective buyers see these advertisements and are influenced to buy.

Be prepared to meet these buyers. Stock "Anzora" now, it will mean extra and remunerative business for you, for "Anzora" is on the P.A.T.A. and ensures

80 % Protected Profit for the Retailer

when purchased in lots of 3 doz. and upwards.

Trade Terms:

Per doz.	Retailed at
11/6	18/-
19/6	30/-

We give 10 % discount on orders of 3 dozen or more.

ORDER A SUPPLY TO-DAY from your usual Wholesaler and send a card to us for Showcards.

THE ANZORA PERFUMERY CO.
32/34 Willesden Lane, London, N.W.

L. GIVAUDAN,

GENEVA, SWITZERLAND.

Manufacturer of all kinds of

SYNTHETIC & AROMATIC CHEMICALS

Acetate of Linalyl	Jasmins
Bergamot art.	Musks
Cinnamic alcohol	Neroli
Citronellol	Phenylethylic alcohol
Coumarin	Rhodinol
Geraniol	Roses
Geranium	Violets
Jacintheas	

&c. &c.

LONDON BRANCH: 43/45 Great Tower Street, E.C.
Telephone Number: Avenue 83.
Telegraphic Address: "Muskinol-Bilgate, London."
AMERICAN BRANCH: Geo. Lueders & Co., 218 & 220 Pearl Street, New York.

PAYS THREE WAYS

1. 100 % GUARANTEED PROFIT.

Eucryl is on the P.A.T.A. list. There's no risk—no price cutting. Your profit is a dead certainty—and it's *100 % every time—all the time.*

2. REPEAT ORDERS.

Eucryl assures the "once used always used" habit. Its quality is so good that it allows you the 100 % profit and *yet* satisfies those who use it—bringing them back for more.

3. NEW CUSTOMERS.

Eucryl sales have a cumulative effect—every user is a salesman and recommends it to relatives, friends and acquaintances Eucryl doesn't need pushing—it sells itself.

Accept this BONUS OFFER

Send an opening order for three dozen and we will include one dozen 6d. tins extra and free of charge. (This offer of one dozen 6d. tins free also applies to all repeat orders of six dozen at 3/6 per dozen, net, carriage paid.) Free samples, showcards, advertising matter—Selling Helps—supplied with every order for "The Dentifrice paying 100 % Profit!"

EUCRYL, LIMITED, 61/63 Lant Street, Southwark, London, S.E.

EUCRYL
TOOTH POWDER

"ASTINE" VANISHING CREAM

Has met with a splendid reception, and in order that the Trade may fully benefit from the wide publicity that is being given to this wonderful complexion beautifier, we make the following

SPECIAL OFFER UNTIL JUNE 6.

We will execute, Carriage Paid—

Orders for 1 dozen small (1/-) Pots and ½ dozen large (2/6) Pots at **11/-** per dozen, and **27/3** per dozen respectively, less 20%.

Terms: Cash with order, or one month on approved accounts.

Supplies may be later exchanged, if necessary, for any of our other famous Toilet Specialities.

WE SOW

YOU REAP

Points to Note.—***We conduct our business on "try before buying" lines, sending each applicant sufficient of the desired preparation to prove its worth.***

Every applicant, no matter what he or she desires, is receiving a sample of "Astine" Vanishing Cream as well.

66% of those who reply to our advertisements are prospective buyers—and regular users—of one or another of our products, and most of them secure supplies through Chemists.

Our Superfine Toilet Preparations are not only the best of their kind, but are the most widely advertised.

Our £10,000 Profit-Sharing Scheme has caught on to such an extent that a constantly increasing demand is assured.

Are you prepared?

What about your Stock?

Send a P.C. for Price List and full range of Showcards, Dummies, Counter Bills, etc.

EDWARDS' "HARLENE" CO.,

20-26 LAMB'S CONDUIT ST., LONDON, W.C.

IMPORTANT NOTICE

Messrs. M. BEETHAM & SON beg to inform the Wholesale and Retail Trade and Shippers that as their

Lait-Larola

has now become so well-known at home and abroad, they have decided to

Discontinue the 6d. Trial Bottles

after the end of May. Kindly make a note of this when ordering.

IT IS ON THE P.A.T.A.

Booklets, Picture Postcards and Showcards sent to help you sell it.

SELLS WELL IN THE COLONIES AND IN ALL HOT CLIMATES.

HAVE YOU GOT OUR SHOWCARD?

What "The Chemist & Druggist" says of it:

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 × 18), can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON
CHELTENHAM,
ENGLAND.

Beetham's "GLYCERINE-AND-CUCUMBER" is supplied as before and still sells largely.

Telephone: CENTRAL 702.

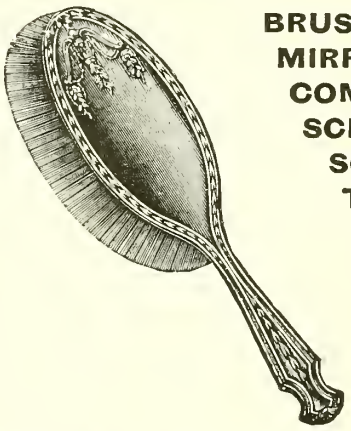
ADOLPH SCOTT,

Telegraphic Address: "ADOLPH BIRMINGHAM."

24, 25 & 26 GREAT HAMPTON STREET, BIRMINGHAM.

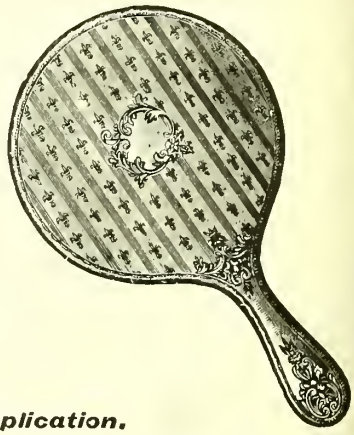
SILVERSMITH & SPECIALIST IN TOILET WARE.

Latest Designs in Silver and Electro-Plated



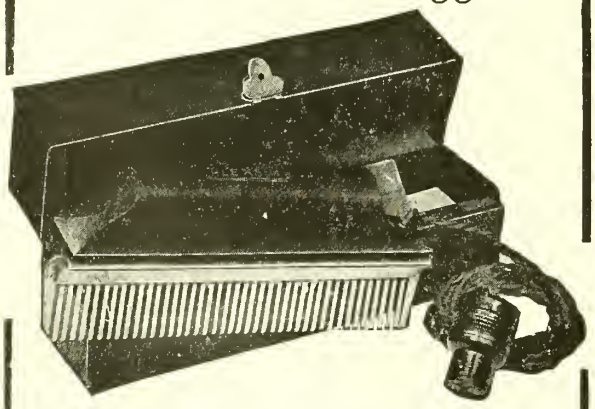
BRUSHES
MIRRORS
COMBS
SCENT BOTTLES
SCENT SPRAYS
TOILET BOTTLES
TRINKET BOXES
MANICURE SETS, &c.

IN STERLING SILVER AND ALSO IN SILVER PLATED.



Catalogues on Application.

A paying side-line for all Chemists and Druggists.



The "Plexsim" Electric Comb and Hair Dryer.

It will dry the heaviest head of hair in twenty minutes, without fatigue. Gives all the effects of an expensive shampoo, and leaves the hair soft, glossy and wavy. Can be attached to any existing electric light socket.

Complete in Leather Box, 12/6

SIMPLEX CONDUITS, LTD.
GARRISON LANE,
BIRMINGHAM.

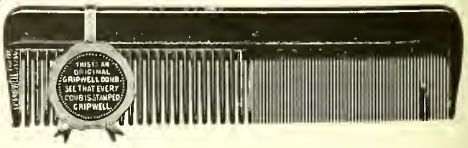
TRAUN'S HIGH-CLASS VULCANITE COMBS

Makers of the celebrated

GRIPWELL COMBS.

GUARANTEED for one year against breakage, non-inflammable, beautifully finished.

To retail from 1/- upwards.



Made in a variety of shapes and sizes.

OTHER IMPORTANT BRANDS—

TRAUN'S "GIANT" Combs.
TRAUN'S "CUMFEECO"
FINE TOOTH COMBS.
TRAUN'S "GLADSTONE"
COMBS. Etc. Etc.

All these good selling lines may be obtained from all the usual Wholesalers.

THE ACME OF PERFECTION

THE STICK THAT NEVER STICKS

—*IT SELLS !*

5/- per doz. In Aluminium Cases packed in attractive Outers, as illustration.

Retail price 9d. per Stick. Cakes supplied at same price. Also 2d. Bijou Sticks, 12 in a box, at 1/3 per box.

EDWARD COOK & CO., Ltd., Soap Makers by Appointment to H.M. THE KING, **LONDON, E.**

Full Page Advertisements in Colours

Our Advertising is bound to interest you because a good article so effectively and largely advertised is bound to bring fresh customers into your shop.

And once your customers have tried McClinton's Toilet Preparations they will come back again for more.

Opposite we give a list of spaces to be filled during the year by our attractive colour advertisements only, to say nothing of black and white insertions. These striking advertisements are certain to draw fresh customers everywhere, so that it will pay to always have a full range of McClinton's Preparations in stock.

In the following Journals

Nash's Magazine
Strand Magazine
The Queen
Printers' Pie
Cassell's Academy Pictures
Pall Mall Academy Pictures
The Gentlewoman
The Tatler
The Sketch
The Illustrated London News
The Sphere
The Graphic,
Vanity Fair, etc. etc.

And, remember, the profit to you is above the average.

McClinton's
Colleen Soap
and Toilet Preparations

FREE FROM ANIMAL MATTER OR MINERAL SODA

are used and recommended by some 200 members of the British Aristocracy, and our guarantee of satisfaction or money refunded covers every preparation we manufacture.

McClinton's "Colleen" Soap, Box of 3 cakes, 1/-. McClinton's "Sheila" Soap, box of 3 cakes, 2/6. McClinton's Toilet Cream, 1/-. McClinton's Talcum Powder in tins, 9d. McClinton's Tooth Powder, in tins, 6d. McClinton's "Hibernia" Shaving Stick, 1/-. McClinton's Shaving Cream, in opal jars, 6d. & 1/-. McClinton's "Colleen" and "Sheila" Perfumes, 1/, 1/6, 2/6, and 4/-. McClinton's "Colleen" Shampoo, wet and dry, 2d. per packet, 7 for 1/-.

Write to-day for Price List and Trade Terms.

McClinton's, Ltd., Donaghmore, Ireland.

PHENATE OF SODA SOLUTION.

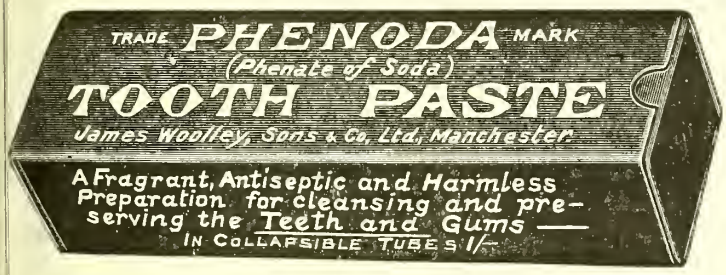
Sol. Sodæ Phenatis *(Woolley).*

Invaluable as a Mouth Wash and for allaying tenderness of the gums after Teeth Extraction. Antiseptic and Astringent.

In Stoppered Amber Glass Bottles, Quarter-Pint, Half-Pint, Pint, Quart, and Half-Gallon.
Retail, **1s., 1s. 9d., 3s., 5s. 6d.,** and **10s. 6d.** each.

"PHENODA" TOOTH PASTE

A FRAGRANT ANTISEPTIC DENTIFRICE.



"An excellent Tooth Paste, cleansing and very agreeable to use."—*General Practitioner.*

"As a Tooth Cleaner thoroughly trustworthy."
Dental Surgeon.

LONDON WHOLESALE AGENTS:—
W. EDWARDS & SON, F. NEWBERY & SONS, Ltd., BARCLAY & SONS, Ltd., BUTLER & CRISPE, SANGERS, MAY, ROBERTS & CO., Ltd.

Examined and certified by the Incorporated Institute of Hygiene.

A TOILET AND NURSERY REQUISITE

for Tender Feet, Skin Roughness, Chafes, Irritation from Sunburn, Heated Rooms, Cold Winds, &c.

"We have tried it extensively, and found it most useful."—*Nurses' Journal.*

"The best form of Dusting Powder for Nursery and Toilet use."—*Medical Annual.*

"An improvement on the old-fashioned Violet Powders."
British Medical Journal.

"Fragrant, soothing, cleanly."—*The Queen.*

White, Pink, or Cream, in Packets, 6d., and Boxes, 1s., of all Chemists.

JAMES WOOLLEY, SONS & CO., LTD.,

WHOLESALE AND EXPORT DRUGGISTS,

MANCHESTER. Indents through British Shippers.

Toogood's Floral Crystal Bath Salts

2429.

No. 2429.

Square Bottles, fitted Boxwood-top Corks, Artistic Labels, finished either Brown or Green Ribbon.

Assorted Odours—

Lavender, Cologne, Violet, Verbena, Oriental, Rose or Pine.

9	18	36 ounces.
10/6	**18/-**	**34/-** dozen

SHOWCARDS SUPPLIED.

2430.

No. 2430.

Round Bottles, fitted Boxwood-top Corks, Artistic Labels, finished either Brown or Green Ribbon.

Assorted Odours—

Lavender, Cologne, Violet, Verbena, Oriental, Rose or Pine.

8	16	32	40 ounces.
7/6	**13/-**	**26/-**	**36/-** dozen.

60	80	160 ounces.
48/-	**62/-**	**120/-** dozen.

Customer's name, etc., printed on labels for orders of two dozen assorted of either style.

SHOWCARDS SUPPLIED.

2518.

No. 2518.

Water Softener.

In Green or Brown Wood Veneer Boxes.

Assorted Odours.

½ lb., **4/6.** 1 lb., **7/6** dozen.

Customer's name on two dozen assorted.

MANUFACTURED ONLY BY

William Toogood, Ltd.

77 Southwark Street, London, S.E.

HAY'S HAIR HEALTH

Sells steadily and consistently. The retail chemist who has it on his shelves is assured of a continued sale of a good preparation.

HAY'S HAIR HEALTH

Restores natural colour to grey or faded hair, eradicates dandruff, cleanses the scalp. Is not a dye.

ON THE P.A.T.A. LIST.

For Prices and information on Sales Helps, address—

THOMPSON & CAPPER, LD.

Manesty Buildings,

COLLEGE LANE, LIVERPOOL.

OVER 100% PROFIT ENSURED & PROTECTED (P.A.T.A.)

for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.

SCIENTIA B&B Co DILIGENTIA

Burgoyne, Burbidges & Co.

MANUFACTURE
(IN THEIR MODEL LABORATORIES AT EAST HAM)

BISMUTH &
ANTIMONY SALTS,
POTASSIUM &
SODIUM CITRATES,
ALKALOIDS, CHEMICALS, &c.
FOR
PHARMACEUTICAL,
ANALYTICAL &
TECHNICAL USES.

The "STANDARD" of PURITY.

COLEMAN STREET, LONDON, E.C.

Telegrams : "CYRIAX, AVE, LONDON."
Telephones : 3254 LONDON WALL (Four Lines).

Telegraphic Address: "CRESSWELL, WESTCENT, LONDON." **WORLD'S HEADQUARTERS FOR** Telephone: No. 1432 HOLBOR

SPONGES

INTERNATIONAL SPONGE IMPORTERS, LIMITED.

CRESSWELL BROTHERS

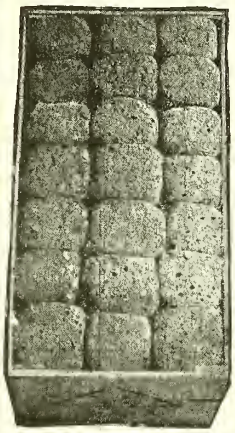
Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers, [BRANCH

18 & 19 RED LION SQUARE, New Warehouses and Steam Bleacheries, 45½ EAGLE STREET. **LONDON, W.C**

LARGEST SPONGE WAREHOUSES IN THE WORLD

Buyers are invited to call to Inspect our Magnificent Stocks and make their own Selections. Lowest Marke Prices. Absolutely Best Values. The following abridged List will serve as a guide to Buyers when writing

UNBLEACHED MEDITERRANEAN SPONGES in Original Cases.



HONEYCOMB. Extra Choice. FINESTTEXTURE and SHAPE. The Pick of all the Fisheries.

Pieces in Case.	Average Price per Piece
400 Toilet	at 6d.
300 ,,	,, 9d.
250 ,,	,, 1/-
200 ,,	,, 1/6
160 ,,	,, 2/-
140 ,,	,, 2/6
120 ,,	,, 3/-
100 ,,	,, 3/6
90 Medium Bath	4/6
80 ,,	,, 5/6
72 ,,	,, 6/6
60 ,,	,, 7/6
45 Large Bath	8/6
30 ,,	,, 10/6
24 ,,	,, 12/6

HONEYCOMB. Toilet & Bath Good 2nd Quality.

Pieces in Case.	Av'ge Price per Piece.
300	at 4½d.
270 ,,	6d.
200 ,,	8d.
180 ,,	9d.
170 ,,	1/-
160 ,,	1/2
160 ,,	1/6
150 ,,	1/9
140 ,,	2/-
120 ,,	2/6
110 ,,	3/-
90 ,,	3/6
80 ,,	4/-
75 ,,	4/6
70 ,,	5/-
65 ,,	5/6
60 ,,	6/6

HONEYCOMB. 3rd Shape, Toilet & Bath. Largest Sponges obtainable at the prices.

Pieces in Case.	Average Price per Piece.
330	at 2½d.
300 ,,	3½d.
280 ,,	4½d.
250 ,,	6d.
200 ,,	8d.
180 ,,	9d.
160 ,,	1/-
140 ,,	1/3
120 ,,	1/6
100 ,,	1/9
90 ,,	2/-
80 ,,	2/6
60 ,,	3/-
45 ,,	4/6
30 ,,	5/-

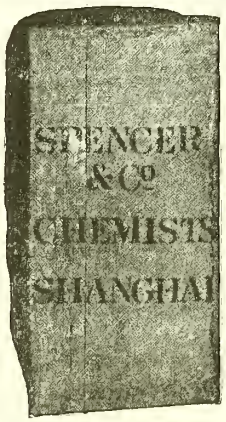
FINE TURKEY CUPS 1st Quality. PICKED SHAPES.

Pieces in Case.	Average Price per Piece.
Toilet Selected 300	at 1/-
,, 250	,, 1/3
,, 200	,, 1/6
,, 175	,, 1/9
,, 150	,, 2/-
,, 140	,, 2/6
,, 100	,, 3/-
,, 90	,, 3/6
,, 80	,, 4/-
,, 70	,, 4/6
,, 60	,, 5/-
,, 50	,, 6/-
Bath Selected 45	,, 6/6
,, 40	,, 7/6

FINE TURKEY SOLIDS. SELECTED SHAPES. 1st Quality

Pieces in Case.	Average Price per Piece.
Nursery 400	at 3d.
,, 300	,, 4d.
,, 200	,, 6d.
,, 200	,, 8d.
,, 200	,, 1/-
Toilet 150	,, 1/6
,, 100	,, 1/9
,, 100	,, 2/-
,, 80	,, 2/6
Bath 50	,, 3/-
,, 36	,, 4/-
,, 24	,, 5/-

THE CONTENTS OF THE ABOVE CASES WILL BE PRESS-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST.



IMPORTANT NEW DEVELOPMENT.

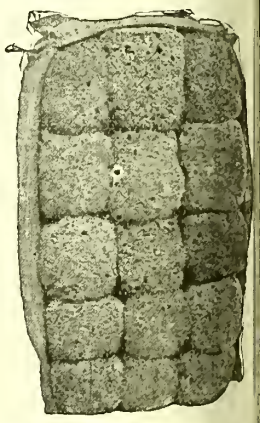
SELECTIONS OF SPONGES TO SUIT CHEMISTS SENT BY PARCELS POST, POSTAGE PAID TO ANY PART OF THE WORLD.

A large number of Chemists in various parts of the world have lately been in the habit of ordering assortments of Sponges press-packed, by parcels post, thus buying in the cheapest manner and incurring no cost of freightage.

We compress the sponges in order that a large number may be packed and sent in a small space. All that is necessary is that the Sponges be placed for a short time on arrival under damp cloths, when they will swell out and assume their original size and shape.

Chemists, therefore, have the benefit of receiving a selection of Sponges, "freight free to destination," and they can rely upon that selection being one eminently suitable for their trade. When ordering it should be stated whether first or second quality is required.

We have now gone thoroughly into the question of supplying Chemists by the method described above and have pleasure in quoting the following selections :-



Showing Package as ready for dispatch. *Showing Package opened upon arrival.*

Selection "A"—1 dozen choice Unbleached Honeycomb Toilet and Bath Sponges, suitable for best-class trade, each at **12/-, 24/-, 36/-, 48/-**, and **72/-** per dozen. 1 dozen choice Unbleached Turkey Cups, each at **24/-, 36/-**, and **48/-** per dozen ... ... value **£15 0s. 0d.**

Selection "B"—1 dozen Unbleached Honeycomb, Medium quality, for Toilet and Bath use, each at **12/-, 18/-, 24/-, 36/-, 48/-**, and **60/-** per dozen. 1 dozen Unbleached Turkey Cup Sponges, each at **24/-**, and **36/-** per dozen ... ... value **£12 18s. 0d.**

Selection "C"—1 dozen Unbleached Honeycomb, large for the money, suitable for the Drug Store trade, each at **12/-, 16/-, 21/-, 24/-, 30/-**, and **36/-** per dozen. 1 dozen cheap Turkey Toilet Sponges at **18/-, 24/-**, and **30/-** per dozen ... ... value **£10 11s. 0d.**

Each Sponge ticketed and numbered to correspond with invoice. Remittance to accompany order.

All orders will receive our prompt and careful attention and will be dispatched to any part within the radius of the parcels post "free." These Selections can be ordered through Merchants in the usual way.

Chemists can order other selections in accordance with their particular requirements. The selections we have quoted are, generally speaking, assortments suitable for a restocking order.

TERMS 2½% CASH WITH ORDER.

LOOSE GOODS DEPARTMENT Where Honeycomb, Turkey, and Cuban Sponges, Bleached or Unbleached, are sold in smaller quantities to suit customers' requirements. Large and varied selections always on show at lowest market prices.

LOOFAHS (Vegetable Sponge). In original compressed bales, as imported from Japan.

Size 8 by 10 inches, about 5,000 pieces in Bale.
,, 10 ,, 12 ,, ,, 4,500 ,, ,,
,, 12 ,, 14 ,, ,, 3,500 ,, ,,
Size 14 by 16 inches, about 2,500 pieces in Bale.
,, 16 ,, 18 ,, ,, 1,800 ,, ,,
18 inches and upwards, ,, 1,200 ,, ,,

We will send lowest prices on application. **Prices for Loofahs swollen out, and ready for sale at per gross: 9/-, 12/-, 18/-, 24/-, 30/-, 36/-, 42/-.**

Stafford Allen & Sons, Ltd.

Distillers and Importers
of

ESSENTIAL OILS,

Manufacturing Chemists,
Expressers of Almond Oil,

Drug and Spice Millers

Cultivators of English
Medicinal Leaves, Roots,
and Perfume Plants,

Manufacturers

of

SOLID, GRANULATED & POWDERED
EXTRACTS, RESINS, OLEO-RESINS,

Liquid Extracts & Alcoholic Preparations.

WRITE FOR SAMPLES, QUOTATIONS and "THE HISTORY OF ALLEN'S ENGLISH."

Flower Farms & Distillery:
Long Melford, Suffolk.

Drug Mills & Factory:
Finsbury, London.

Telegrams: "Persic London."
Telephone: L.W. 804.
ABC (4th & 5th Editions) and Lieber's Codes used.

Registered Offices:
Cowper Street, Finsbury, London.

"LESCOL" PERFUMES

We can meet your requirements.

Lines from a 1d. to a Guinea.

YOUR SPECIAL ATTENTION
IS DRAWN TO OUR NEW

**PARMA VIOLET, WALLFLOWER,
LILY OF THE VALLEY,
CARNATION, AND SWEET PEA.**

Write for our New Price List,

Illustrated in Colours,

Showing our very attractive new lines

TO THE . . .

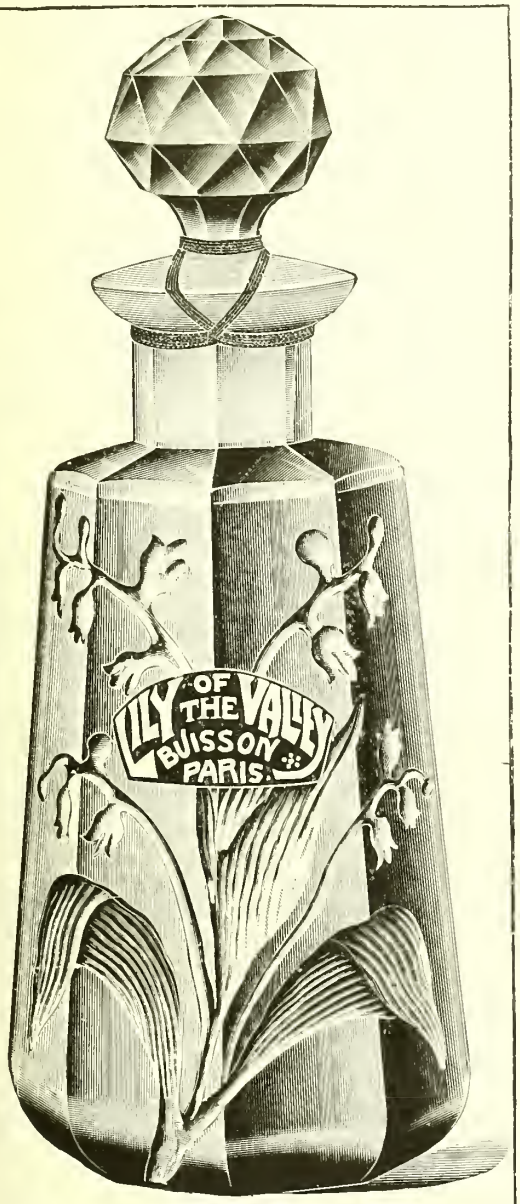
Lescol Perfumery Co.

Lomond Grove, Camberwell Green,

Telephone: 810 HOP.
Telegrams: VANILLIN, CAMBER, LONDON."

LONDON, S.E.

Crystograv Perfumes



NATURAL SIZE.

THE

LATEST NOVELTY.

CUT POLISHED BOTTLES WITH FLOWERS ENGRAVED :: :: INTO THE GLASS. :: ::

IN

Violet,

Rose,

AND

Lily of the Valley

60/- per dozen bottles.

PROPRIETORS:

W. J. BUSH & CO., Ltd., Ash Grove, HACKNEY, **LONDON, N.E.**

And at MELBOURNE, SYDNEY, MOSCOW, and NEW YORK.

JOHN JAKSON & CO.

(MITCHAM ROAD) LTD.

WEST CROYDON, SURREY.

SEVEN FARMS and THREE DISTILLERIES in SURREY.

Gold Medal

Paris Universal Exhibition, 1900

HORS CONCOURS BRUSSELS, 1910.

MEMBER OF JURY LONDON, 1912. GHENT, 1913.

FRANCO-BRITISH EXHIBITION, LONDON, 1908

Grand Prize

The highest awards for the production of

ESSENTIAL OILS OF PEPPERMINT, LAVENDER and CAMOMILE

Please order from your Wholesale House, and specify

FINEST

LIQUID PARAFFIN

(STERN'S MAKE)

¶ Highly recommended for Internal Use.
¶ The Highest Standard of Excellence.
¶ Water White, free from Taste and Smell.
¶ Quality and Purity guaranteed.

Wholesale only from the Makers, STERN SONNEBORN OIL CO., LTD.,
51 ROYAL LONDON HOUSE, FINSBURY SQ., LONDON, E.C.

Manufacturers of White and Coloured Oils, Petroleum Jellies, White, Yellow, etc. Supplied through the Wholesale Trade only.

FASHIONS CHANGE!

and let us be thankful for it.
TO-DAY the fashion is

SOLID FACE POWDER (POUDRE COMPACTE)

Bourjois of Paris is the Powder House.

Our Solid Powder, with Puff,
No. 65
IS THE BEST.

MADE IN SEVEN TINTS.

ROSE, NATURELLE,
RACHEL, BLANCHE,
ROSETTE BRUN,
OCREE, & MAUVE.

6s. per dozen.

1 Gross lots can be printed with customer's own name.

DO NOT BE MISLED BY BUYING CHEAP AND WORTHLESS IMITATIONS OF THIS ARTICLE.

May be obtained from all the Wholesale London and Provincial Houses, or from

HENRY C. QUELCH & CO., 4 Ludgate Square, LONDON, E.C.

ROBERT BLACKIE,

Wholesale and Export Manufacturing Chemist,

HEAD OFFICE, MILLS, AND LABORATORY,

SHEN WORKS, Tower Bridge Road, LONDON, S.E.

SPECIALIST.

SPUN OINTMENTS impalpable and absolutely uniform, are now the standard of quality.
(Regd. Trade Mark).

And Creams of every kind for HOME and EXPORT Trade.

Spun Ointments are the production of Shen Works only. All B.P. Ointments are now spun. Private Formulæ made up and spun. Customers' own ingredients may be supplied. Secrecy of formulæ and integrity of materials guaranteed. **SPECIAL Cash with Order Prices** may be had, goods d/d London, or free on rails or steamer. Containers and packing free.

TOOTH POWDERS.

For every class of Trade. The largest output in the Kingdom. Over 50 Standard Grades. In bulk or packed in tins with customer's name and address on top for 1 gross and over. Special design for 10-gross lots and upwards. Private receipts carefully attended to and executed with integrity.

COLLAPSIBLE TUBES.

For Home and Export Trade.

Spun Toilet Lanoline
" Tooth Pastes
" Cold Creams
" Ointments, &c.

WARRANTED NOT TO LEAK.

LIME CREAMS IN ALL SIZES.

With various labels and varied finish.

A homogeneous Pure White Cream, which keeps indefinitely and will not go thick or separate.

3 oz. 4 oz. 6 oz. 8 oz. White French Limes.
3 oz. 4 oz. 6 oz. 8 oz. White Panels. Prices on application.

COLD CREAM.

No. 1	2	3	4
9*d.*	1/-	1/3	1/6 per lb.

(QUANTITIES LESS.)

WHITE FULLER'S EARTH

Borated Talcum.

VIOLET POWDER, &c.

In Cartons, Boxes, Barrels, and oval-decorated Canisters with Sprinkler Top.

HAIR DYES, POMADES, SHAMPOOS.

A SUCCESSFUL STEADY SELLING LINE.

Very adherent and delightfully perfumed.

ELEGANT SHOWCARDS SUPPLIED FREE.

WINDOW SHOWS ARRANGED AND DULY ALLOWED FOR.

"YENA" POWDER DE RIZ (Shen).

BIJOU ... 18/- SMALL ... 33/- LARGE ... 48/- JUMBO ... 88/-

N.B.—The Best Selling Line ever offered. SHOWCARDS SUPPLIED FREE.

A. Boake Roberts & Co., Ltd.,

STRATFORD, LONDON, E.

FOR

SOLUBLE ESSENCES.
ESSENTIAL OILS.
OIL LEMON, ORANGE, BERGAMOT, &c.

If you wish to make first-class Aerated Waters of unimpeachable purity, use

BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences.

LEMON.	GINGER ALE.
ORANGE.	STONE GINGER BEER.
GINGER.	KOLA CHAMPAGNE.
RASPBERRY.	LIME JUICE & SODA.
STRAWBERRY.	LEMON SQUASH.
PINEAPPLE.	&c., &c.

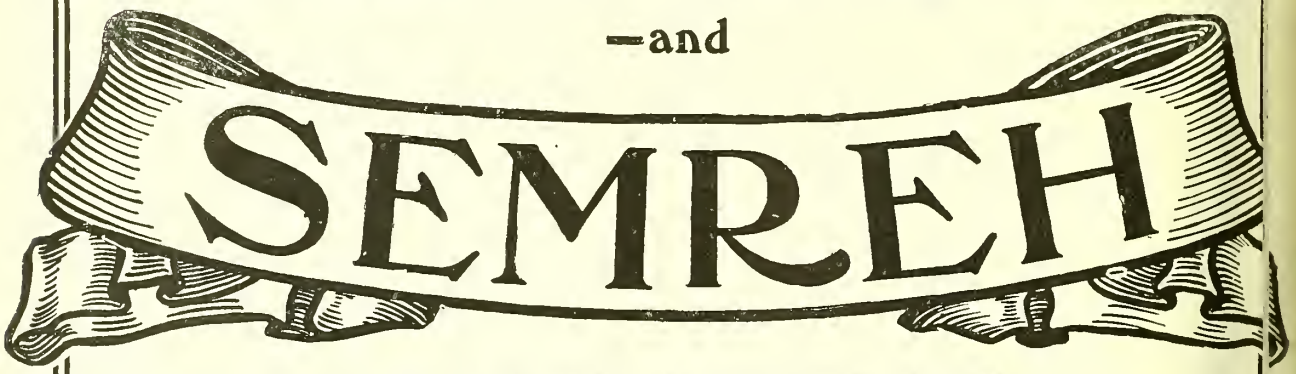
Golden Caramel Colourings, &c.

Artistic Cappings

whether on Perfumery, Essences, Tinctures, or any Proprietary Articles put up in Bottles, Vases or Jars,

increase the selling value

—and



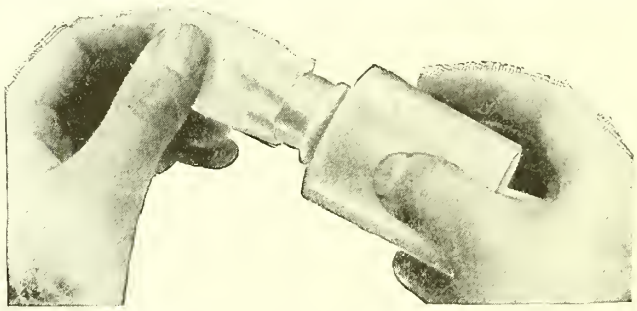
SELF-FIXING BOTTLE CAPS

are as easy to use as they are dainty in appearance and effective in finish.

USED BY THE MOST EMINENT FIRMS IN THE TRADE including:
Messrs. Bayley & Co.; Boots Cash Chemists; H. Bronnley, Ltd.; British Drug Houses, Ltd.; Dr. Collis Browne's Chlorodyne; J. Gosnell & Sons; Henry's Calcined Magnesia; Kruschen Salts; Eugene Rimmel, Ltd.; Zenobia, Ltd., &c.

WET

showing how SEMREH CAPS are applied. The loose wet cap is merely slipped over the stopper, sprinkler or cork. No shaping, or tying down required; in fact, it is so simple a boy can do it. Pharmacists in all parts of the country are using this time and labour-saving method.



HOW SEMREH CAPS ARE PUT ON.

DETAILS—Standard Colours—OPAQUE—White, Red, Blue, Green. TRANSPARENT—Clear, Red, Blue, Green, Amber. Special Colours to order. Sizes—Standard sizes up to 2 inches. Special sizes to order.

DRY

showing how the SEMREH CAP fits itself to the stopper making an AIR-TIGHT, SPIRIT-PROOF seal. Stronger, of better appearance, and much more efficient than skin-pleated paper, &c. Inexpensive, too, being complete in itself, and requiring no outlay on extras, such as string, adhesive or elastic.

A fully illustrated descriptive booklet sent on application.

Telegrams: "VISCOID BROMLEY."

THE VISCOSE DEVELOPMENT CO., LTD.,
PEMBROKE ROAD, BROMLEY, KENT.

Telephone: 1415 BROMLEY.

Everyday Lines are the Chemist's Mainstay.

It is a truism that things bought well are half sold ! !

The few goods here shown are such as are required in every household.

2½d. Toilet Soaps, 12 assorted names.
In boxes of 3 doz., per gross ... 18/6
Or in boxes of 1 doz. „ ... 19/6

THE "LAST WORD" TOILET PAPERS.
In Packets, per doz. ... 4/-
„ Rolls „ ... 2/9
These are really good, and once bought, are steady sellers.

Chemists who want a very large Roll should order "JAPYROLES," which, being crêped, bulk very largely.
Per doz. ... 2/9

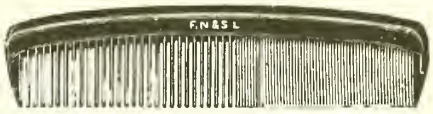
TRY our "N" Series TOILET PARAFFIN,
4/- and 6/6 per dozen.
Sample free.
A splendid line, put up in a most attractive style, and commanding a ready sale.

1/- Ovals, per doz. 7/6
-/6 „ „ 4/-
"Quality A1.

"OLD LONDON" LAVENDER WATER.
-/6 ... per doz. 4/-
1/- ... „ 8/-
1/6 ... „ 13/-

The Brand known the world over—
"ST. PAUL'S,"
1/3, ... per doz. 9/-
9d. ... „ 4/8

We sell also the "N" BRAND in same size bottles, at 4/- and 7/9 per doz. Customers' names on 6 doz. lots.



Combs in every variety can be supplied, from Metal Dressing at 1/2, 1/10, 3/-; and Horn at 1/8, 2/3, 3/-, 3/9; to Vulcanite at 14/9 doz., and Super Galalith at 14/9.

We supply a case with clips, to show 24 combs at a glance, for 3/6 each, which quickly brings back its cost.

No. 1/2.

No. 9.

"IMPERIAL" BRAND LAVENDER SMELLING SALTS.
No. 1. 6d. or 9d. ... ... per doz. 3/9
No. 2. 1/- ... ... „ 6/-
No. 9. Feather Stoppered ... ... „ 3/4
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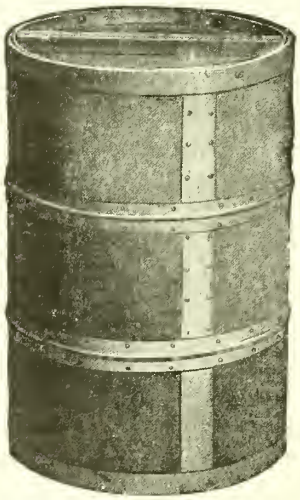

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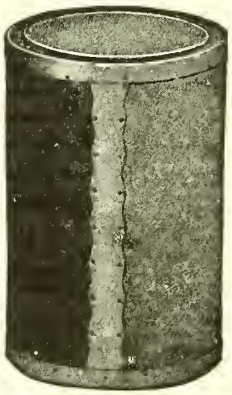

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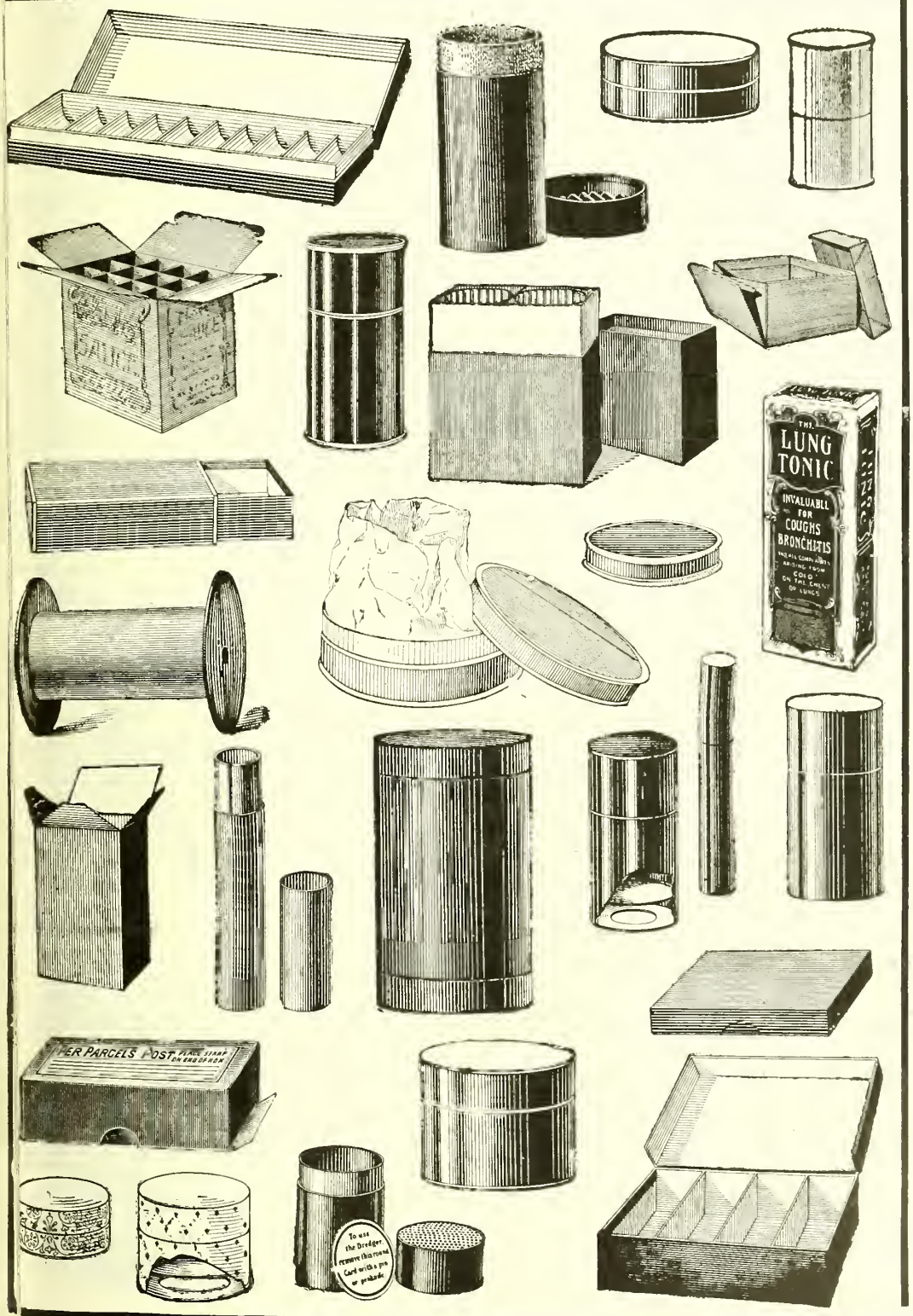

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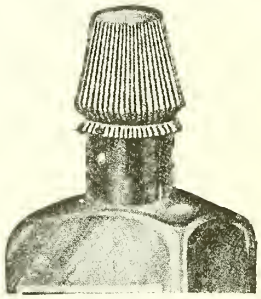

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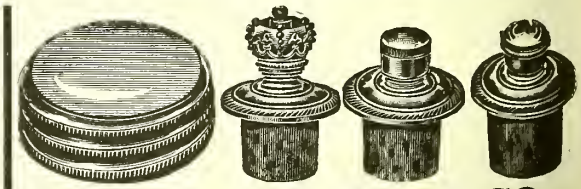

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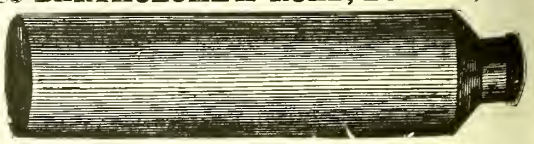

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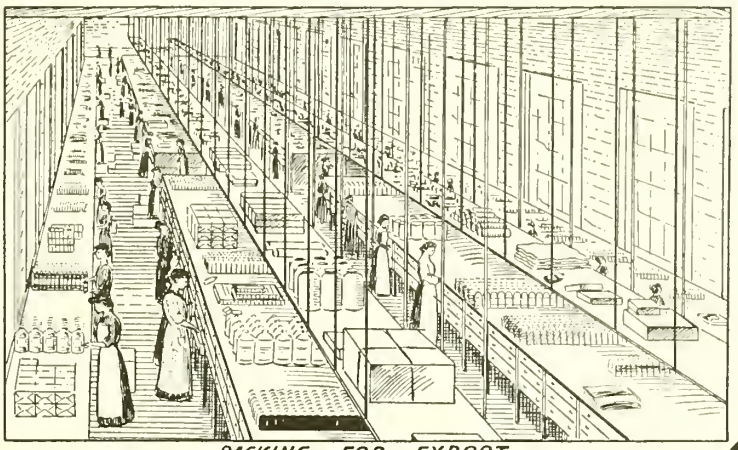

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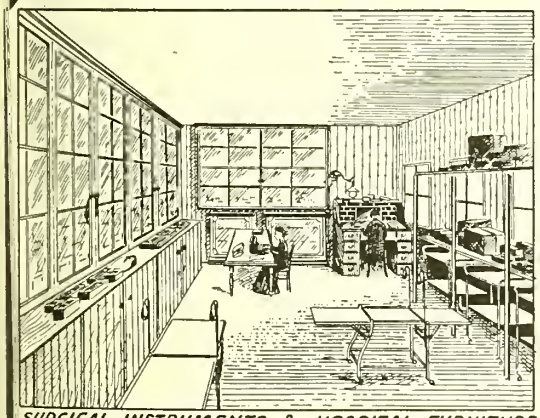

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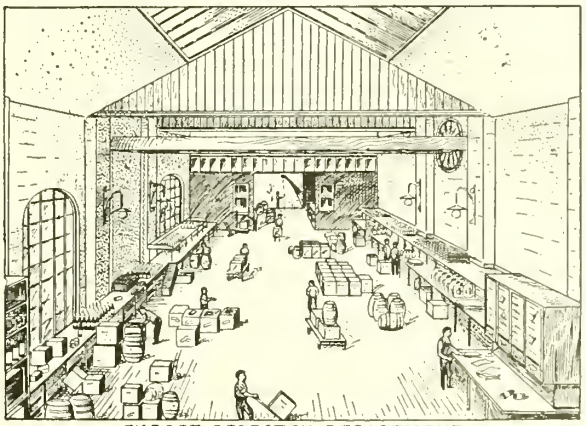

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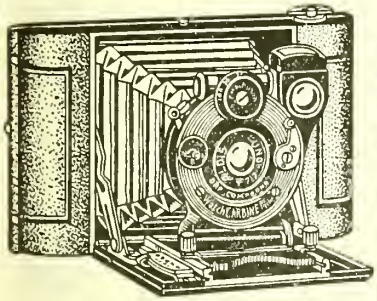

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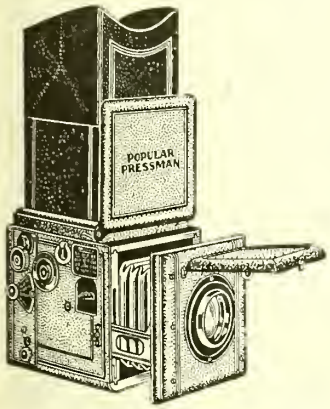

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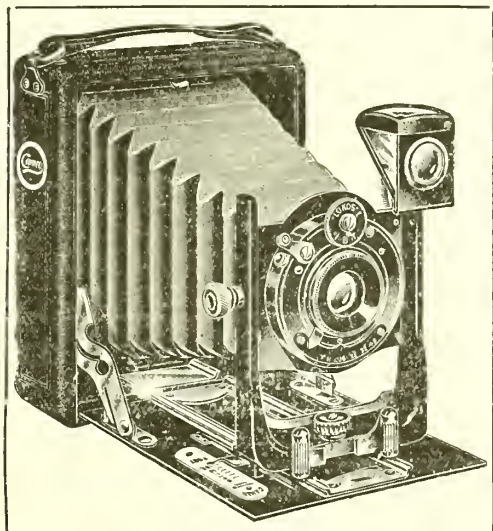

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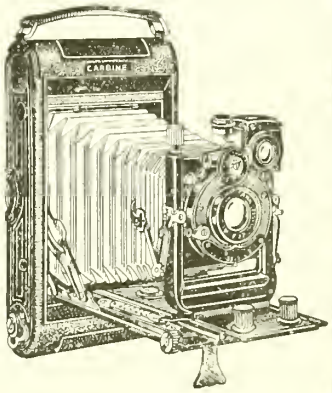

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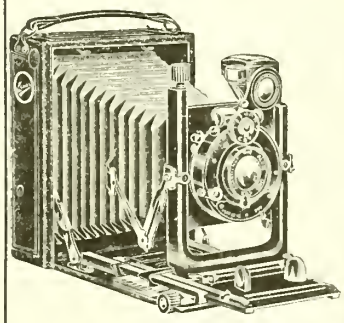

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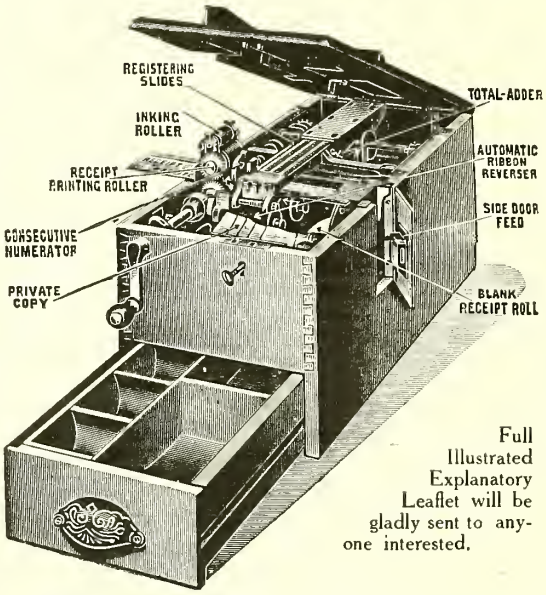

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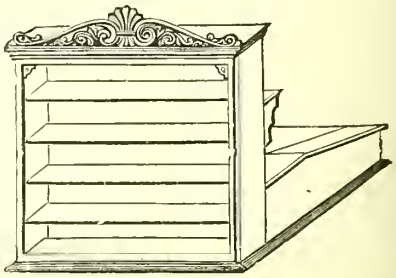

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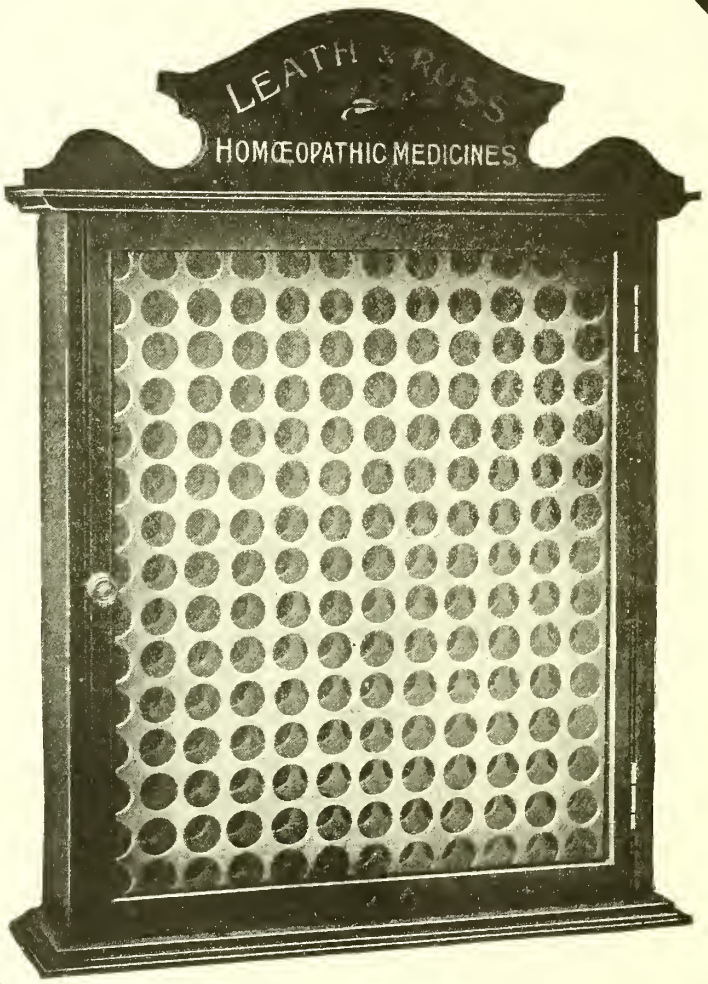

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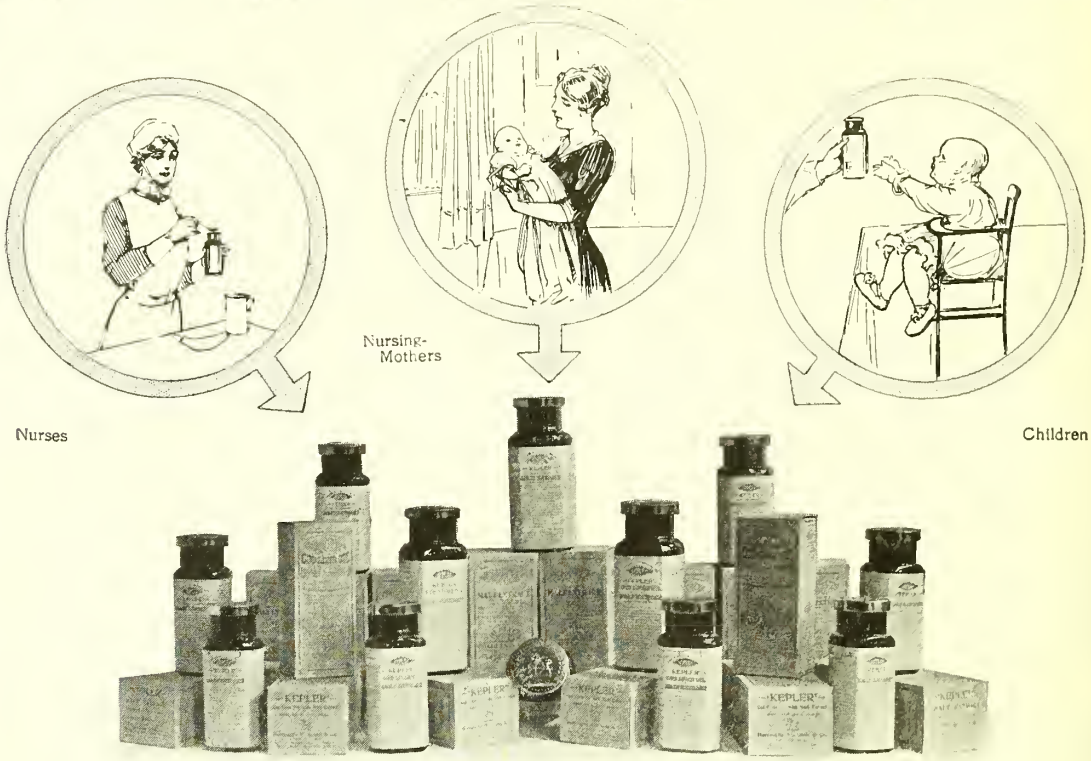

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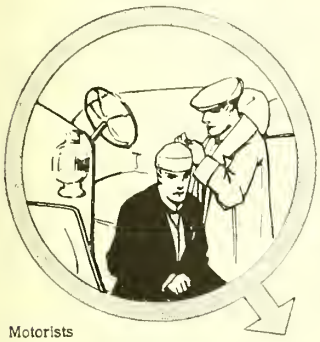

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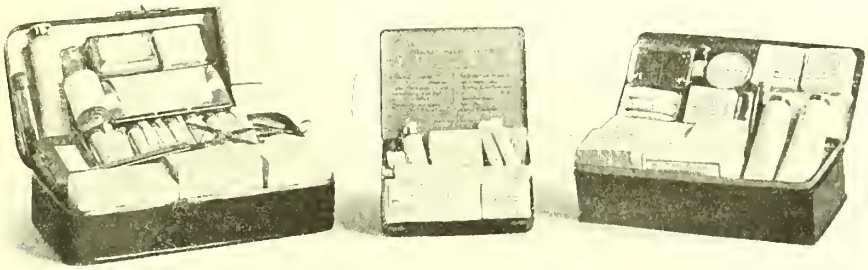

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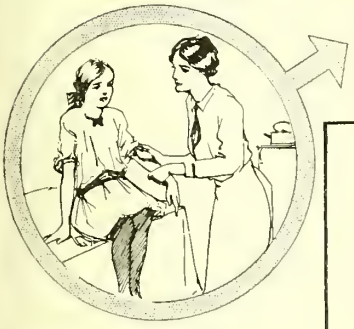

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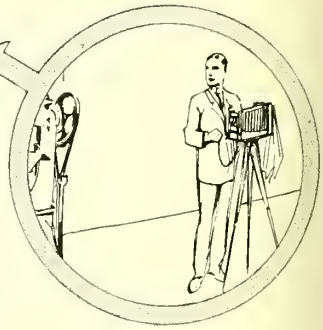

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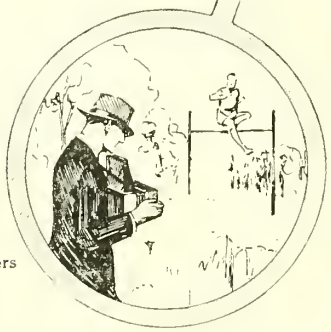

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Profit 50%

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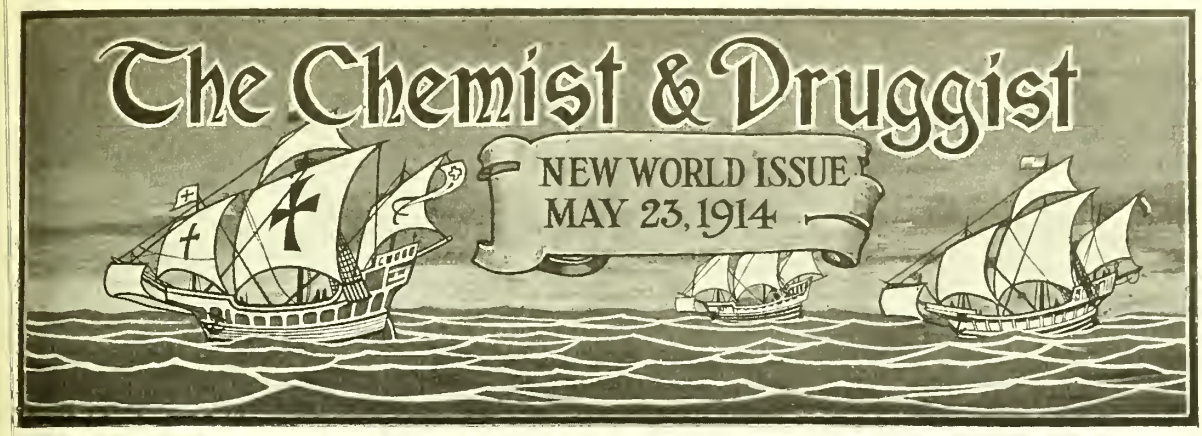

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SOMETHING EXTRA SPECIAL

n booklets has just been produced by the Publishing Department, and all interested in the merchandising of hemists' goods should see it. Its special message is the Summer Issue of THE CHEMIST AND DRUGGIST and the distribution of insets therein. The brochure itself may give o a receptive mind an idea in style for an attractive inset, nd the proposition put forward is certainly worth the areful consideration of every advertiser of drug-trade products. Write for a copy, and at the same time tell the Publisher any difficulties you may have with regard to dvertising to the trade in this way on July 25.

THE CHEMIST AND DRUGGIST.
42 Cannon Street, London, E.C.

SUMMARY.

Subscribers are advised to read this column first.

See Contents in the previous column for references to many matters which cannot be referred to here.

A review of the Sicilian essential-oil market, particularly the lemon-oil situation, is given on p. 105.

We award a number of prizes in the *C. & D. Diary* competition, and report upon the matter on p. 68.

The conditions upon which commercial travellers may carry on their business in distant parts of the British Empire and in foreign countries are the subject of an article on p. 79.

Numerous correspondents welcome the protests against discounting of Insurance dispensing bills, which were published in the *C. & D.* last week (pp. 105-106), and a special contributor examines the causes which have led to the discounting (p. 72).

An unusual case is reported in our legal columns. A customer summoned a chemist before a Magistrate to return a prescription which had been dispensed in the shop for years. No one knew where the original was, and the defendant furnished a copy (p. 95).

One of the reasons why there is so much discounting of panel chemists' accounts at the present moment is that the first annual balancing and fresh work incident to a new year have delayed the officials, so that they cannot ascertain how much money they can dole out (p. 78).

Mr. H. J. Macmillan, of Rosario, Argentina, communicates an informative article on the chemical and drug business that is to be done there by exporters. Mr. Macmillan tells not only what should be done, but the things that should not be done. The article is illustrated, and begins on p. 64.

When the British Pharmaceutical Conference visits Chester in July the Thursday will be devoted to an excursion to Langollen. It promises to be one of the best, so far as country is concerned, that the Conference has ever had. An illustrated description of the route, by Mr. R. Cecil Owen, B.Sc., is on p. 69.

The annual meeting of the Pharmaceutical Society of Great Britain was held at Bloomsbury Square, London, on Wednesday afternoon. It was a little longer than usual, and entirely uneventful (p. 85). The results of the Council election were announced on Thursday, and are printed in our Coloured Supplement. There is no change.

The conference called by the Pharmaceutical Society at Preston for considering the discounting of panel chemists' bills is reported on p. 91. What the Society wants is to start a prescription-checking bureau for Lancashire. The doctors present objected to pay for work which should be done by Insurance Committees. Nevertheless the matter is being considered.

ARGENTINE AFFAIRS.

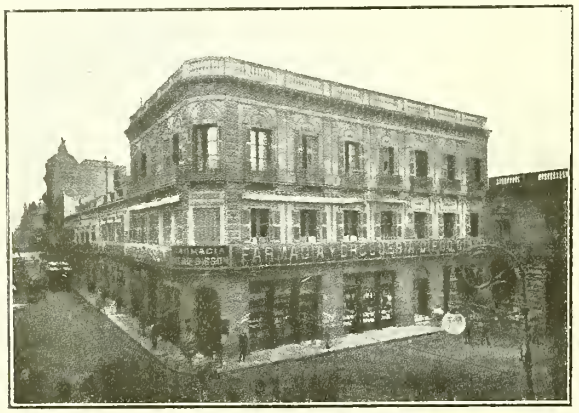
By H. J. Macmillan.

I.—Some Business Facts.

WHERE is Argentina? Some people who do business with it, and therefore ought to know, seem to have but little idea. I have seen many English business letters addressed thus and similarly:

"*Messrs.*————, *English Chemists,*
Rosario (River Plate), Argentina, Brazil."

A few years ago the representative in Buenos Aires of an English firm related to me something perhaps even



Exterior of Messrs. Gibson's Pharmacy.
Corner of Defensa and Alsina Streets, Buenos Aires. A glimpse of the wholesale warehouse is seen on the left.

more remarkable. It seems that a business man in Venezuela wrote to the firm, proposing to do business. Now, Venezuela is two or three thousand miles away from Buenos Aires. They wrote to their representative, explaining the case, and saying that, if he happened to find himself in the neighbourhood, he might call on the man and discuss matters! One could forgive them for not being quite clear about the relative position of the two countries on receipt of the letter, but not to think it worth while to look such a matter up is, for a business house of standing, scarcely creditable. This illustrates what we in Argentina sometimes feel, especially as regards English houses. It is not thought necessary to give us the same attention that a home customer would receive. And why? Our money is as good, and I think, on the whole, as safe, and our orders are generally bigger. Some time ago I saw arriving here, in four cases, a shipment of goods which should have been put into twelve. The exporting house was left to its discretion, and shipped the things in as few packages as possible, solely considering its own convenience. Worse still, the invoice was simply a list of the contents of the four cases, without the slightest indication as to the case in which any individual article was to be found! This meant that in the Custom-house all the cases had to be emptied, and a list made out for the usual declaration. Would any client in England be treated in this way? This is not a solitary case, but I am glad to say it is rather an extreme one.

"Wake Up, England!"

Type-written invoices are no longer so exceptional, but English houses were slow to follow in this respect the example of the French, German, and American houses. Through lagging behind in some other respects, they are now in danger of letting trade slip from their hands. Take the Argentine law which requires specialities to be registered. What is happening? A large number of well-known English preparations have not yet been registered, and their place is gradually but surely being taken by others. This non-registration is due to various causes. Some proprietors flatly refuse to disclose their formulæ. What then? Their goods are not allowed into the country. In the course of time they will probably be replaced by similar preparations of other nationalities, and will not even be asked for. One valuable property has already come to this latter stage because, being unregistered, there has been none of it on the market for a year or two. The proprietors, I am informed, put forward a formula which contained an ingredient with a fancy name. This is where the trouble comes in. The name does not fully describe the ingredient, and the article is not accepted, and will not be accepted so long as a proper description is withheld. Meanwhile the proprietors are losing hundreds, or perhaps thousands, of pounds. The fact is, a formula matters very little to the public. Its publication makes no difference. If you were to show them the published formula of a popular and well-advertised shilling article, and then said you had exactly the same formula made up for sixpence, they would not be convinced. As an advertisement in the *C. & D.* rightly says, "Your special remedy may be 'just as good,' but it is advertising that sells." One firm that I know of threatened to appeal to the British Government if their proprietary were not allowed to come into the country without registration! This is a fact, incredible as it seems. That was a few years ago. They are probably wiser by now. The article is not yet registered, but neither is it allowed into the country. In another year or two it will be a lost property here.

In the Matter of Agencies,

a few English houses are alive to opportunities, and are steadily laying the foundations of a good business connection here. In many cases, however, they will not, in order to make their goods go, spend money in propaganda-work, nor will they let anybody else do it. This last remark requires a word of explanation, and it is this—that these houses will not give agency terms which will secure a buyer against having all his work and expense in vain should he get their goods well introduced. The following examples will serve to show what I mean:

(1) A gives B the sole agency in the River Plate for his—let us say—"Bonbons." B advertises them, and a demand is growing up, when an English traveller calls and offers to book an order for them. How was that? A had made another arrangement with the house represented by this traveller. Result: Time and money wasted by B; no more of A's "Bonbons" ordered by him, and, although a local

San Martin Pharmacy, Rosario.
The property of Mr. Vito Cifarelli.

house or two ordered from the traveller, they soon gave up re-ordering, and A's "Bonbons" are now never mentioned.

(2) C represented in Buenos Aires an English firm. He promised sole agency for his firm's "Nourishine" (let us

say) to D in another large town with some fifty or sixty pharmacies. D pushed the "Nourishine," and it was beginning to go well. In about a year's time C visited D, and went over the town booking orders over D's head. Result: Business dropped as in the former case.

(3) In the *C. & D.* a certain article, for which there is a promising field here, was advertised—"Pesticide" we will call it. K, through an intermediary, wrote for particulars of the sole agency; and he wrote again, but he never could get a satisfactory reply. He ordered a trial-lot of the article, and after a few months ordered more, requesting to know definitely about ageney, as, if "Pesticide" should prove satisfactory, he wished to advertise it; but he required to be assured that he would not be deprived of the results of his work afterwards. The reply was as follows:

"I am favoured with yours, and note that K is prepared to take up agency in Argentina for my 'Pesticide.' While I am not represented there, I cannot at the moment consent to absolute agency in that country before finding out what the output is likely to be. You may rest assured, however, that I have no intention in the meantime, and will not open another ageney without giving due notice."

How could anyone spend money in pushing an article on such conditions? K will probably look about him for the "Pesticide" of some other house which will guarantee him the exclusive agency so long as, after a given period, his orders reach a certain point per month, or quarter, or year. A proviso of this kind would be adequate protection for the proprietor, and would leave him at liberty to terminate the ageney without undue delay if the agent failed to reach or maintain the turnover mutually agreed upon.

A Corner in Macmillan's English Pharmacy, Rosario.

The Subject of Claims

is not a happy one, but it has a way of forcing itself to the front from time to time. It is a point on which some wholesalers are particularly touchy—not so much for the value claimed, perhaps, as on account of the underlying suggestion that a "mistake" has been made, although, of course, all claims do not imply this. But better one mistake than two, and to be unbending or unreasonable in this matter is surely a mistake. Some years ago I became aware of a somewhat remarkable case of this kind which may be worth considering in some of its aspects. For convenience, the English wholesale house will be referred to as "A & B," and the buyer in Argentina as "X." (These initials mean nothing.) A & B are a large and important firm, whose principals are widely respected, and, in his more limited sphere, as much may be said of X. The case is briefly as follows. X, having examined a sample of A & B's disinfectant fluid, ordered, with about 100*l.* worth of other goods, two 25-gal. barrels of it. Upon reaching its destination, X and several of his employés, on testing the fluid, found that instead of the usual miscible preparation, it was for the most part apparently oil of tar, which only to a comparatively small extent mixed with the water, the greater portion falling to the bottom of the vessel soon after shaking. X thereupon sent two samples to A & B with an inquiry as to what was to be done with the stuff. A & B duly replied that they had had the stuff examined at the works, that it was oily, etc., and several other things, but—*it was not what they had sent!* Upon this, X, considering a question of his good faith involved, had the two barrels recorked and shipped them back to A & B, in order that they might satisfy themselves on the point. He also sent a claim for the cost of the disinfectant, freight both ways, and Customs duties, the account in the meantime having been paid. A & B again replied. They had had the liquid examined, etc., but "it was not what they had sent." What was X to do? He was personally known to A & B. He had done business with them for years, and wished to continue, if practicable. So he wrote again to say that if A & B could say they believed it possible that (1) the disinfectant had undergone a change between leaving them and reaching him, or (2) that anyone had taken out the disinfectant and replaced it with the oily stuff (which commercially was perhaps worth as much), he (X) would be willing to accept the commercial consequences of this theory, whatever they might be. The reply of A & B

Interior of Mr. Cifarelli's Pharmacy.

was that they could not offer any explanation, but that the liquid was "not what they had sent." They knew this, because "they had supplied a number of other customers at the same time elsewhere," presumably filled from the same source, "and had not received a single complaint." But this could not be—*i.e.*, the filling from the same source—because there is overwhelming proof to the contrary—namely, that the stuff was wrong when it reached X. Perceiving that further correspondence was useless, X transferred his business relations to another quarter.

ADVERTISING.

The French carry on considerable propaganda here by means of booklets and other forms of advertisements, made interesting by the addition of other matter. The Italians have many well-known preparations on the market, which have a considerable sale, especially among the large Italian population here, but by no means confined to them. The English houses in general do very little propaganda-work. A few of them advertise a little in the national Press, but nothing to speak of. They used at least to reach the English residents here through advertisements in such periodicals as the "Strand Magazine," but this mode of reaching them is not to be relied on, as newsagents here order the advertisements to be cut out from the front and back of the magazines before posting in England, so as to reduce the cost of postage. I am not at all sure that the public here get the advantage of this economy; but, in any case, many of them would prefer to get the advertisements, even at a small additional charge. However, there the fact is, and advertisers should make a stand against its continuance.

United States manufacturers are making a keen bid for this market, and are being rewarded. By frequent posts packets of pretty cards, etc., with advertisements and other matter, come along to chemists, who give them out. Children ask for them. They are read (the people here are fond of reading such things), and the articles advertised are asked for. But there is one defect here: frequently, when such goods are asked for, they cannot be supplied. The advertisers have the idea that the chemist, upon being asked for them a few times, will order direct, but that is a risk which the latter will not take on so soon; indeed, very few will take it on at all. When advertising is done, care should be taken that the goods are to be had somewhere in the country. There are here many good and reliable houses ready to offer their services in such cases.

On the other hand, it is practically impossible to make an article, however good in itself, widely and popularly known without advertising. But, given a good article, well put up, moderately priced, of a kind for which there is a demand—as a pill, a pastille, a perfume, an ointment, a soap, a cream, a tonic, a digestive, an anti-rheumatic, a vermin-destroyer, a disinfectant, a hair-restorer—place a stock in the country, advertise judiciously but boldly, and success is certain. But no haste for success! I have known two or three small firms to send a small consignment of goods, and before the end of three months they had rendered the account as many times, and asked for a settlement—and got it! Such behaviour is childish. Let it be clearly understood, however, that all the lines I have indicated are already on this market. Nevertheless, what I have said holds good. There is room, not only "at the top," but in the neighbourhood of the top. We are eight or nine million souls here in Argentina, and we love to consume liberally the many good things which the chemist can supply.

II.—Some Trade Statutes and Regulations.

In most countries which enjoy the blessing of representative government there are periods of great legislative activity in certain definite directions, and in Argentina, during the last few years, this activity has been expended on matters closely affecting pharmacy. The Legislature has busied itself with (1) a Pharmacy Law which changes the conditions on which a pharmacy may be established or (if already established) retained; (2) a law laying down the conditions on which specialities may be offered for sale—the Registration Law, as we may conveniently call it; and (3) a law creating the necessity of placing a duty-stamp on specialities, whether for medicinal, toilet, hygienic, or veterinary use—the Stamp Law. The Registration Law and the Stamp Law are national in their application, but the Pharmacy Law is somewhat different in the different provinces, each province having the power to legislate upon this matter to its own taste.

THE PHARMACY LAW.

Avoiding details, the Pharmacy Law may be substantially described as follows:

I. It lays down that, from a certain date (June 1907), in order to establish a pharmacy it is necessary to hold the degree of *Farmacéutico* conferred in one of the national universities.

Before the passing of this law the same thing was theoretically the case, but the law permitted and recognised a compromise, which consisted in this: that a qualified assistant who held the diploma of *Idoneo de Farmacia* could establish and conduct a pharmacy in his own name—nay, anyone could own a pharmacy in his own name, provided he had an *idoneo* at the head of it—but in both theso cases it was necessary also to have a *Regente*—*i.e.*, a *farmacéutico* who pledged his name for the good management of the pharmacy. In those days the duties of a *regente* were: (1) To signify to the Health Board by means of a document signed by himself and the proprietor of the pharmacy that from such-and-such a date he would give his *regencia* to the said pharmacy; (2) nominally he was supposed to be responsible for the conducting of the pharmacy in conformity with legal requirements, but in practice probably not one *regente* in a hundred knew or heeded what was being done in that respect. He generally had some other occupation, and the chief, when not the only, connection he had with the pharmacy was to call for his salary at the end of the month, or perhaps earlier! Sometimes he did not do even this much, but had his salary sent to him. It was (and is) prohibited to give *regeneia* (as the office of the *regente* is called) to more than one pharmacy at a time.

II. While none but *farmacéuticos* may establish or purchase a pharmacy, the *idoneos* in possession of pharmacies at the passing of the Act were allowed to retain them under a *regente* as previously, and in some places they were granted certain facilities for becoming *farmacéuticos*—a concession of which a considerable number took advantage. The examination for *idoneos*, in the old sense, is suppressed, but there is instead an examination for *Auxiliares de Farmacia* (or assistants). The question has arisen as to whether a *farmacéutico* in business may contract partnership with a person who is not a *farmacéutico*, and after much discussion it has, if I remember aright, been settled in the affirmative; at any rate, it is a fact that such partnerships are in operation to-day.

III. The *regente* has now a little more to do than formerly, but he is by no means overworked. He has to sign the prescription-book (*recetario*) every twenty-four hours in the Province of Buenos Aires, in some other places every forty-eight hours. This need not interfere with his duties in other branches of business. Owing to the excellent return it gave as an investment, many persons took the degree in pharmacy without the least intention of practising it; hence *idoneo* proprietors have always been able to find *regentes* when required; for, apart from the fact that they are mortal, the latter sometimes make a change. There are heavy penalties for being without one beyond a comparatively short space of time. It is an understood thing that the *idoneo* proprietor does not wish the *regente* to interfere, and the latter is quite agreeable. The relations between them are generally cordial, though there is not, as a rule, much intercourse, even of a business kind. The *regente* walks in, signs the prescription-book under the last entry, and walks out. He may, if he sees you disengaged, stop just long enough to ask you "how it goes to you," or to inform you that "it makes good weather," or had weather, with a politeness which in itself is worth half his salary, but he will by no means importune you with these attentions.

Sometimes the *farmacéutico*, apart from his *regencia*, forms one of the working staff, and then, in addition to his 150 to 200 dollars (paper currency) per month—equal to 150*l.* to 200*l.* per year—as *regente*, he gets another 200 to 300 dollars per month (the salary of a first-class assistant) for his working services—in all, from 350*l.* to 500*l.* a year. Whether he gives personal work (*trabajo personal*) or not, a contract has to be entered into before the Health Board for a period of not less than six months.

Whenever an *idoneo* proprietor parts with his business, as he cannot open a new one a *regente* is permanently dispensed with. In this way, in the course of time only *farmacéuticos* will own pharmacies, and *regentes* and *regencias* will be things of the past. At the death of a proprietor, whether a *farmacéutico* or an *idoneo*, the business may be continued by his widow, or by his children (if minors), with a *farmacéutico* at its head.

The Pharmacy Law is administered in different areas by the respective *Consejo de Higiene* (Health Board), a body consisting of several medical doctors, a secretary, and a *farmacéutico* who is inspector of pharmacies. The latter sees that the pharmacies are conducted in accordance with legal requirements—*i.e.*, that each has either a *farmacéutico* for its owner, or an *idoneo* and a *regente*, as the case may be; that there is suitable accommodation for working, especially in the laboratory and dispensary; and an equipment of apparatus, including an autoclave for sterilising, a fine balance to weigh to half a milligram, burettes, thermometers, reagents, spatulas, mortars, pill-tiles, glass stirring-rods, etc., and a suitable supply of drugs, chemicals, etc., certain of which must be kept apart and under lock and key. When application is made (as required) for permission to open a pharmacy, the inspector visits it, and reports to the *Consejo* as to whether it is in "reglementary conditions." If it is, permission is granted; if not, it is withheld till the law has been complied with.

The Registration Law.

By this law it is necessary to register practically every put-up article, be it Argentine or foreign, whether for internal or external use, if it lays claim to medicinal

The Patio of an Argentine Residence.
Mr. and Mrs. H. J. Macmillan and their sons at their home in Rosario.

properties; so that not only mixtures, pills, tablets, pastilles, emulsions, syrups, powders, drops, ointments, liniments, etc., fall within its scope, but *medicinal* soaps, lotions, waters, dentifrices, etc., are also included. It was thought at first that "entire drugs," such as cascara sagrada, phenacetin tablets, and cod-liver oil, when labelled plainly, would be exempt; but as many such preparations have been registered it may be considered that this course is necessary—at any rate, in order to avoid trouble that might cost more than the registration, if for no more imperative reason.

In order to have an article registered, it is necessary to supply, with the application, five bottles (or other package) of the article exactly as it is sold to the public. There is a form to be filled up, and on this the complete formula of manufacture is to be written, without omitting any substance that forms part of the preparation, whether excipient, colouring, or the like. The formula must be written in Spanish and the drugs specified with their "technical names." Quantities are to be expressed in the metric system. There must also be supplied a set of printed labels and any handbills, etc., which may accompany the article, each signed and dated by the interested party, and attached to a sheet of paper. On these labels, etc., no speciality must be advertised unless already approved (*i.e.*, registered), and no statement made of a deceptive or exaggerated nature. It is necessary also to present a legal document visé by the Argentine Consulate of the country of origin, which will accredit the person authorised to act, authenticate the place of origin, and testify that the preparer is a pharmaceutical chemist (*farmacéutico*), and that a pharmaceutical chemist directs the manufacture. These certificates must be legalised by the Minister for Foreign Affairs.

The cost of registration is eight paper dollars (about fourteen shillings) for each active ingredient, no charge being made for excipients, etc. The preparation is analysed to prove the correctness or otherwise of the formula, and if this has been found to be as stated, and if the preparation contains nothing harmful, and is in accordance with the claims made for it on the label, etc., it will be approved and registered. A number will be assigned to it, and this should thereafter appear on the label, so that in the Custom-house or elsewhere it may be easy to verify its having been approved for sale. It must also show the formula. On being approved, it will be placed in one of two categories: (*a*) free sale (*venta libre*) or (*b*) sale under prescription (*bajo receta*).

The latest returns up to near the end of 1913 show that out of less than 200 articles registered by pharmaceutical manufacturers of Great Britain the three leaders are Messrs. Burroughs Wellcome & Co. (108), Allen & Hanburys, Ltd. (13), and Evans Sons Lescher & Webb, Ltd. (8). The Sanitas Co., Ltd., have five of their well-known disinfectants registered; the list also contains Martindale's amyl nitrite capsules and nitroglycerin tablets, Squire's Ferocal and Sha-Ko pastilles, and the following other specialities:

Balsamo Pectoral de Jackson and Pastillas Pectorales de Booth, Hallawell; Holloway, Pills and Ointment; Mackinlay & Co., Aceite de Ricino en polvo; Bauer & Co., Albulactin (polvo); F. A. Mattia, Agua Mineral Kalsbeek; G. Louvel, Agua Mineral Rosbach; G. Curling, Citrato de Magnesia; J. T. Davenport, Clorodina de Collis Browne; J. M. Richards, Dirigo; Wulfing & Co., Formamint; Allcock Manufacturing Co., Emplasto Poroso; Newton, Chambers & Co., Izal; Menley & James, Iodoglidine (tablets); A. J. White, Jarabe Seigel; R. Darsonvally, Pastillas Darsonvally; Baiss Bros., Licor Colchicina Salicilada de Hopkinson; T. & W. Henry, Magnesia Henry; J. Murray & Sons, Magnesia Fluida Murray; Anglo-American Pharm. Co., Ner-Vita; Meggison, Pastillas para Tos; H. & T. Kirby, Pil. Kirby No. 9; Kutnow, Polvos Kutnow; G. Eade, Pildoras (gout, etc.); Eno, Sal Fruta Eno; A. Peter & Co., Tonico Wintersmith (Vino); Trench, Trench's Remedy for Epilepsy; T. & H. Smith, Tela Vesicatoria Smith; Yardley & Co., Talco Yardley; J. Gosnell, Talco Boratado Cherry Blossom; J. Atkinson, Talco Eonia; Vixol Syndicate, Vixol; Fletcher, Fletcher & Co., Vibrona (Vino); and Per-lax.

Many other specialities that used to come to this market are not yet registered. Among these also are many that are popular; but even the balance—a considerable number—though not in such great demand, ought to be for the most part worth registering, which could probably be done at an average expenditure of 5*l*. each. And it should not be forgotten that every day's delay diminishes the advantages of registration.

The Stamp Law.

This law, since its introduction in 1902, has undergone several modifications. At first it made practically a uniform charge on all specialities and perfumes of 5 cents (1*d*.). Then the value of the stamp was varied with the selling-price of the speciality, which led to confusion, as the selling-price, for various reasons, was different in different parts of the country. So now a new law has been passed, and it came into force in April this year, fixing definite stamp-value for definite classes of articles, irrespective of price. It is as follows,* the stamp-values mentioned referring to a single package—bottle, box, tin, tube, envelope, etc.—of the classes of goods named. In the case of soaps it refers to a single cake, so that a box

* Similar particulars were given in the *C. & D.*, May 2, p. 46.

containing several cakes, if subject to stamp-duty, would have to bear duty for each single cake :

5 cents (1*d.*).—Natural mineral waters and veterinary specialities of 100 kilos. or less.

10 cents (2*d.*).—Medicinal specialities, whatever their origin, and artificial mineral waters.

Toilet and hygienic articles pay as follows:

15 cents (3*d.*).—Perfumed oils, cosmetics, soap-powder, shaving-soap, tooth-paste, tooth-powder.

20 cents (4*d.*).—Face-pomades, scented soaps, dentifrice-waters, hair-lotions, toilet-waters, Eau de Cologne, toilet-vinegar, brilliantine, perfumed papers, face-powder, sachets.

25 cents (5*d.*).—Rouges (powders, pomades, pencils, etc.), bath-salts.

50 cents (10*d.*).—Perfume extracts, liquid hair-dyes.

Exemptions.—Sheep-dips, whatever their price, and all articles selling at 40 cents or under.

There is also a law (originally part of this one), on the point of being passed, which requires alcoholic beverages to bear a stamp. It is meeting with great opposition on the part of those engaged in that trade, not so much on account of the tax itself as owing to the trouble it would give and the difficulty of complying with it. The chemists in some cases have been able to raise prices by the amount of the stamp-value, and occasionally, as in the more expensive articles, by a little more; but on the whole they have, I think, been at a considerable loss by the Stamp Law.

[*In the third section of the article Mr. Macmillan will deal with hours, prices, and cognate matters of special interest to retailers.*]

"C. & D. Diary, 1914."

Synthetic Sentences Competition.

CARD 2 in the competition open to readers of *The Chemist and Druggist Diary, 1914*, required the competitor to

write a synthetic sentence not more than sixteen words about this *Diary* or its contents with words selected from the *Diary* advertisements.

Indications were required of the pages from which the words employed were taken. A good number of cards were received, not only from home readers but from the Colonies and foreign countries. Considerable ingenuity has been displayed in many cases in obtaining the words required for the sentence while still retaining an elegant construction. The following synthetic sentences are in our opinion the most meritorious, and to each of the writers we award a prize of half a guinea :

A volume of praise in brief I distil,
Clear as a crystal, complete as a pill.
—Miss Charlotte Crofts, Nonington, Dover.

Keen chemists Gathergood hints from this field of information which Bidwell to Foster business.—Mr. P. R. Goodwin, 73 Fenwick Road, Peckham, S.E.

Wright Resolent Guest and better Kent every year, the most efficient Cannon to battle with.—Mr. Peter Irvine, 71 St. Vincent Street, Glasgow.

It will enable the pharmacist to make more money and be more distinguished than ever before.—Mr. A. Mortimer, 9 Leeds Road, Harrogate.

Invaluable ideas, suggestions, and novelties to enable pharmacists to make 1914 a profitable, successful, telling year.—Mr. D. Milnes, Lane Head Pharmacy, Brighouse, Yorks.

Consolation prizes of "Provincial Hospital Pharmacopœias" and the "Chemists' Dictionary of Synonyms" are awarded to the following :

Mr. Chas. F. Shewell, 18 Fleet Street, Torquay.
Mr. S. J. Robinson, Moora, Western Australia.
Mr. Fred. T. Holmes, Launceston, Tasmania.
Mr. H. J. Macmillan, jun., Rosario, Argentina.
Mr. L. Davies, Enfield Wash.

The following is a further selection of the synthetic sentences submitted for this competition :

The pharmacists' favourite cyclopædia, backed by brain-workers' advice and business vim, elaborated by long experience.—*William Maskew* (Clacton-on-Sea).

This *C. & D. Diary* contains invaluable information, and the advertised novelties possess the quality that builds business.—*Krishnarao G. Dhairyawan* (Bombay).

Advertising in this *Diary* is the most successful way to produce good demand for your specialities.—*H. L. Furness* (Lytham).

When a seller wants a buyer, he just says so in the *Diary*. That does it.—*John J. Witten* (Sunderland).

Examination of *The Chemist and Druggist Diary* will give pleasure and profit to the progressive pharmacist.—*L. K. Gordon* (Toorak, Victoria).

An honest guide for the pharmacist; the headquarters of smart hints for increasing business.—*S. J. Robinson* (Moora, Western Australia).

The Chemist and Druggist is a most useful book, and no chemist should be without it.—*Clarance H. Stevenson* (Wellington, N.Z.).

First-rate! Unique! Faultless! Invaluable! are some expressive descriptions of our *Diary* by new and old subscribers.—*Chas. F. Shewell* (Torquay).

Unique, up-to-date index of attractive houses, profitable suggestions, and general knowledge essential to chemists' business success.—*S. Archer* (Balsall Heath).

Make more profit by acquaintance with the original, forceful, up-to-date business information of the helpful *Diary*.—*F. J. Janes* (Aylesbury).

Chemists whose Witts are Keene Wellcome the 1914 *Diary*, and make Hay (*l. s. d.*) by its help.—*J. G. Wallbridge* (Liverpool).

The *C. & D. Diary* is a unique recorder of modern pharmaceutical attainment, and covers the whole field.—*F. B. Parkin* (Minehead).

The Chemist and Druggist Diary should be every chemist's principal guide star throughout their business life.—*Violet A. Symonds* (Ipswich).

For most reliable information appertaining to pharmaceutical requirements consult *The Chemist and Druggist Diary* of 1914.—*John W. Tocher* (Edinburgh).

Sage pharmacists "gathergood" from the evertrusty *Chemist and Druggist Diary*, above all the greatest pharmaceutical caterer.—*Robert Barker* (Buckley).

Ideal desk companion, reliable buyers' guide for all modern pharmacists, and essential for success.—*W. H. Hamson* (Hindley).

A good article, careful and pleasant service, a fair profit. Result: satisfaction for customer and chemist.—*Charles Pickles* (Dalry, Ayrshire).

An ideal combination comprising most important business-producing advertisements and exhaustive information for chemists and druggists.—*John Parkinson* (Manchester).

CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus: "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Qualitative Analysis for Junior Students.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by *a stamped and addressed envelope*, marked "Corner for Students" on the top left-hand corner) will be received up to Tuesday, May 26, on which day the samples will be posted.

Students' reports will be received up to Saturday, June 6. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

Special Notice.—The prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, *which fact must be attested on their reports.* Others may obtain specimens of the mixture of salts, and their reports will be separately adjudicated, but they will be regarded as *hors concours.* Correspondents who do not state that they are preparing for a qualifying examination will be included in the latter list.

Conference Country.

In this article Mr. R. Cecil Owen, B.Sc., describes the Vale of Llangollen, which is to be visited by members of the British Pharmaceutical Conference on the occasion of its fifty-first meeting, to be held in Chester this year.

Looking up Dinas Bran.

ON Thursday, July 23, the British Pharmaceutical Conference will make a whole-day excursion to one of the most celebrated beauty-spots of Wales—the world-famous Vale of Llangollen. Starting from the General Station, Chester, at 9.15 A.M., the hour's railway journey will be through beautiful country, as the photographs which illustrate this article sufficiently prove. The route taken by the Great Western Railway is south-westerly. A few minutes after starting we enter the county of Denbigh, shortly to pass through the picturesque Gresford Woods, bordered by fresh meadows intersected by winding streams, and soon to reach the old, compact, but brisk town of Wrexham. Speeding onwards, the colliery district of Ruabon is soon left behind, and the open country becomes one's own for the rest of the day. Now begins a panorama varying minute by minute. Villages piled on hillsides, woods and woodland streams, fertile plains and menacing heights, clefts in the uplands revealing vistas which extend through whole counties to mountain ranges in distant parts of wildest Wales—such are the visions one sees as the train rushes on. But a little while longer and the train journey is over. This is Chirk, and "All change here" is the order.

The journey is continued by the Glyn Valley Tramway (a miniature railway), at the side of the road, connecting Chirk with the village of Glyn-Ceiriog, which is the terminus for the day. Nothing more beautiful of its kind is to be seen during the whole excursion than the little river Ceiriog, on whose northern bank

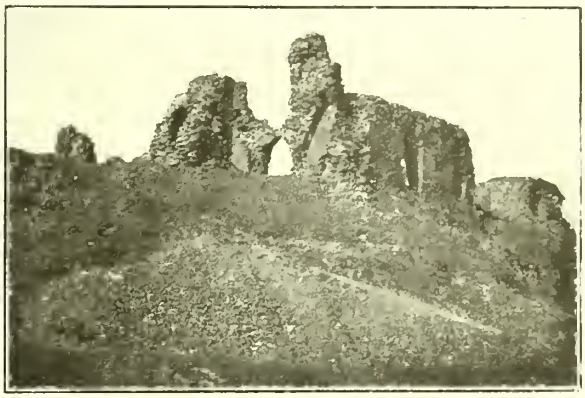
The Dee at Llangollen.

The picture as seen from the grounds of the Royal Hotel, where the Conference party will lunch.

the road proceeds throughout the whole of this latter part of the journey.

With verdure clad the fields appear,
Delightful to the ravished sense;
By flowers sweet and gay
Enhanced is the charming sight.
Here fragrant herbs their odours shed;
Here shoots the healing plant.
With copious fruit the expanded boughs are hung;
In leafy arches twine the shady groves;
O'er lofty hills majestic forests wave.

Could Milton have know the valley of the Ceiriog when he penned these lines, or Haydn when he wedded them to immortal harmony, even as Mendelssohn was inspired



Summit of Dinas Bran.

by the scenery at a spot only some ten miles away to write his well-known "Rivulet" (Op. 16)?

Before beginning the three-mile hilly walk to Llangollen (and luncheon), let us take stock of the surroundings. Chirk is famous for its natural beauties and the ancient Chirk Castle. The latter was constructed in 1013, and shows in its architectural features evidences of its long descent. It was pounded by Cromwell's guns in the Civil War. It sheltered Charles I. (the couch which he occupied is still on view), and it continues an unimpaired usefulness as a residence for Lord Howard de Walden. A portion of the present grounds was the scene in 1165 of a bloody conflict between Henry II. and Owen Gwynedd, a Welsh prince, the result being that Henry was driven in ignominious flight across the border. Glyn, at which point we are now meditating, is famous by reason of its vast slate-quarry. Wales has many slate-quarries, but whereas most of

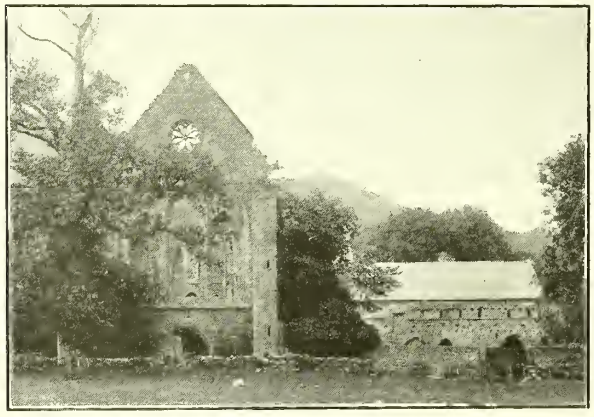
Llangollen from Barber's Hill.

them (as the great Penrhyn Quarries at Bethesda) are worked above ground in galleries, this at Glyn is more properly to be called a mine. From long channels in the rock, some of them extending inwards for close upon a mile, the slate is obtained by blasting. The quarry may be seen *en route* for Llangollen. The visitor, green from the big city, is usually anxious to witness a blasting operation, and, if he do, gets very good value for his temerity. The whole chamber quivers and vibrates,

weird and terrifying sounds are heard to issue from within, the workmen stampede for points of safety, and the stranger, believing that his last moments are nigh, says his prayers, faints, utters profanities, or makes for the emergency exit, according to taste or temperament.

Shortly before reaching Glyn, extensive fish hatcheries are noticed. Numerous artificial ponds are used in these, and the fishlings, safely hatched, are conveyed to the streams of many parts of the United Kingdom. Now upward, onward, and northward to Llangollen! It is easy to ignore the incidentals of the climb in the ecstasy which results from the unfolding of so much fresh scenery as one gets higher and higher. The outlook changes perpetually as one proceeds. In every direction are chains of hills. The road, rising sharply for a mile to a thousand feet above sea-level, proceeds without rise or fall through a second mile, and falls at a steep angle till, at the end of a third mile, Llangollen is reached. The first mile brings us to the hamlet of Bryn-y-Groes—"a place," as Thomas Hardy says of a Wessex spot, "outside the gates of the world, where may be found more meditation than action and more listlessness than meditation."

Some few hundred yards and, behold! Llangollen is spread out in the vale beyond and beneath. Away in the distance, the farthest object to be perceived, stands a curious hill-chain, about two miles long and about 1,200 ft. high, seeming to have undergone quarrying



Valle Crucis Abbey, Llangollen.

operations throughout its length. These are the famous Eglwyseg Rocks, whose peculiar appearance is due to no human hand. In front of them, in high relief, conspicuous against its striking background, stands, grim, defiant, frowning, the hill of Dinas Bran, the so-called Crow Castle. The first glimpse of it is given in the initial letter, and a nearer view is reproduced also. Everywhere nothing but hills, north, south, east, and west. Now the town itself comes into view.

According to Borrow, the name Llangollen means the Church of Collen, to which saint a church in the neighbourhood was dedicated. Collen, according to legend, was by turn soldier, ecclesiastic, and hermit; he was a Briton of noble descent, and played an astonishing part in each of his various *rôles*. But it has been said that as Collen means hazel, Llangollen means the Church of the hazel, which shrub abounds in the neighbourhood. The valley of the Dee or Dwy, in which Llangollen lies, is distinguished, among other things, as having given a surname to Owen Glendower, the most illustrious of all Welsh princes, who owned the whole valley, "and in which" (I quote Borrow) "he had two or three places of strength, though his general abode was a castl in Sycharth, a valley to the south-east of the Berwyn [mountain], and distant about twelve miles from Llangollen." It is a town of 3,000 inhabitants, and stands 300 ft. above sea-level. The visitor must not fail to notice, on his right as he enters the town, the famous Plas Newydd, where dwelt for so many years the "Old Maids of Llangollen," immortalised in song and story. Plas Newydd is a truly beautiful half-timber residence, dating back to the seventeenth century. In front is a trim Dutch garden, which perpetuates the plans laid down more than a century ago. Surrounding it are extensive grounds covering fourteen acres and broken up by streams, bridges, paths, gardens, and summer-houses. Here dwelt for more than half a century the celebrated Old Maids, Lady Eleanor Butler and Miss Ponsonby. Both were Irish, and both vowed early in life to abjure matrimony, to leave their native land and seek an asylum in some quiet spot removed from the bustle and turmoil of existence. In Llangollen they found the haven they sought for. Lady Eleanor Butler died, aged ninety, in 1829, and Miss Ponsonby in 1831, aged seventy-six. They are buried, along with a faithful maid, Mary Carryll, in the churchyard near by.

Now it is one o'clock, and this is the Royal Hotel. Luncheon is waiting. This over, we proceed to Llangollen Bridge and the towing-path of the Shropshire Union Canal. The bridge should be carefully noticed. It consists of four irregular pointed arches, and was formerly thought to have been erected about 1346 by Dr. John Trevor, Bishop of St. Asaph. About forty years ago, when widened to twice its former width, a stone was discovered bearing the date 1131, and it is

Plas Newydd, Llangollen.

now believed that the original structure was erected in the time of Henry I., whatever operations may have been undertaken by the bishop. Viewed from the bridge, the river is seen to rush, frothing and voluble, over its rocky bed. Taking its rise some twenty-four miles away, in Bala Lake, it has often been known to rise many feet in a few hours, washing away tree-trunks, destroying cattle, and damaging bridges, dwellings, and other property. Fluctuations of this kind are now, however, less frequent than formerly, thanks to certain engineering precautions, such as self-acting sluices and similar devices. Crossing the canal, we take the pathway leading to the summit of Dinas Bran, the conical hill 900 ft. high already referred to. Extensive and varied scenery overwhelms the visitor as he meanders up the hill. A considerable area of the hillside is covered with pine-trees, which enhance its picturesqueness. At the summit one sees the ruins of an extensive fortification, which measured about 300 ft. by 150 ft. Little is known of its history, though its architectural features would appear to indicate a British origin. The name Dinas Bran has long been a puzzle to philologists. Dinas is easy, and means a fortified place; but *Bran?* There is a Welsh word "bran" meaning crow, hence the popular rendering Crow Castle, especially since crows are seen occasionally to circle round the ruins. Again, it has been suggested that crow is but an abbreviation or corruption of crown, the reference being to the crown

of ruins on the summit. Or, again, it may be that Dinas Bran means the Castle above the Bran, which is the name of a tiny stream flowing near the foot of the hill. Finally, there is the suggestion that Bran

Llangollen Canal at Berwyn.

may be the name of a Welsh chieftain in whose possession the castle once was.

Gone, gone are thy gates, Dinas Bran, on the height!
Thy warders are blood-crows and ravens, I trow;
Now no one will wend from the field of the fight
To the fortress on high, save the raven and crow.

Descending to the canal towing-path, one turns to the right, walking some distance along the canal-bank, until a road on the right brings one to the ruins of the famous Valle Crucis Abbey, which display a sad and chastened beauty all their own. Lying in a meadow surrounded by hills, their situation is in harmony with the beauty of the building in its prime. A favourite view is that of the eastern end reflected in the monks' fishpond, which still remains. The Abbey of Valle Crucis, or Llan Egwest, built in the year 1200 and dedicated to the Virgin Mary, is one of the earliest examples of pure Gothic architecture to be found in Great Britain. The expense of its erection was borne by Madog ap Gruffudd Maelor, lord of Dinas Bran and grandson of Owen Gwynedd, Prince of Wales. It was first a house of Cistercians, who, not content with their original endowments, endeavoured to get possession of rich livings in Chirk, Ruabon, and other places. They managed to secure fishing rights in the Dee, and they got possession of some hundreds of acres of rich farming land. The various parts of the Abbey—nave, transept, presbytery, sacristy, chapter house, refectory, and cloister—can still be traced, most of it being in excellent preservation, especially the east side of the cloisters, the dormitory, and the refectory, now used as a farmhouse. It is said that the magnificent oak roof now adorning the Llangollen Parish Church came from the Abbey, and the fact of its bearing an inscription relating to the Virgin Mary, patron saint of the Abbey, lends colour to the supposition.

The Shropshire Union Canal, which flows through Llangollen, is not less beautiful than the Dee, which flows so near to it. So clear is the water that the bottom can plainly be seen, as also can innumerable fish which dart through the cool, pure medium. In several places natural rockeries adorn its banks, where grow in green profusion many varieties of fern and other rock-dwelling plants. Overhanging trees accompany its course, gardens stretch down to its waters, and meadows surround it on every side. At Llantysilio, some two miles from Llangollen, it joins the Dee, which supplies it with water. Hence it flows *via* Chirk in a south-easterly direction to Ellesmere, then on to Chester, where again it joins the Dee, then to Ellesmere Port to mingle with the Manchester Ship Canal and the Mersey. Between Llantysilio and Chirk little or no business proper is done upon it—scarcely anything, indeed, beyond the carriage of pleasure parties in quaint, primitive, flat-bottomed boats, resembling truncated chars-a-bancs and drawn by

Horseshoe Falls, Berwyn.

horses. The system is engagingly simple, and the modern note is severely avoided. Thus under a bridge there may be no path, and the towing-rope is therefore unfastened from the boat, which is carried along by its own impetus till the bridge is passed, whereupon horse and vessel are again, with much patience, joined together.

At Chirk, business in the ordinary sense (carriage of slate and limestone) begins, which business grows in volume as mile is added to mile, till at Chester the typical and prosaic canal for business purposes is reached.

Another of the famous sights of the district is the great aqueduct which carries the canal over the Dee Valley near Trevor, half-a-dozen miles from Llangollen. It is known as the Pontcysyllte Aqueduct, and was built by the great engineer Thomas Telford more than 110 years ago. It is substantially a huge iron trough supported upon nineteen arches rising to a height of 120 ft. Through the middle arch flow the waters of the Dee; this has a span of 120 ft., the remaining arches measuring 45 ft. across. The length is 1,007 ft., and the cost was 47,069*l*. This graceful structure harmonises with the natural beauties of its setting. Another aqueduct near Chirk carries the canal over the Ceiriog. Speaking of this class of structure, it may here be remarked that there is a third, surpassing even these in size, elegance, and cost, which carries the Great Western Railway over the Dee Valley. The visitor crosses over it in the train *en route* for Chirk shortly after leaving the station of Cefn. Returning now to the junction of river and canal above Llangollen, there will be noticed a semicircular dam in the bed of the river, constructed to regulate the flow of water. This dam is known as the Horseshoe Falls, and is much visited and photographed. At this point the visitor should not fail to notice the Chain Bridge over the Dee, uniting the canal towing-path with the railway station at Berwyn; it is a small model of one of the great suspension bridges constructed by Telford. Here, too, is Bryntisilio, the home of the late Sir Theodore Martin and his wife (Helen Faucit). Here Sir Theodore wrote his "Life of the Prince Consort," and here he was visited by Queen Victoria.

A few remaining noteworthy features may be passed in rapid review. The Geraint, or Barber's Hill, lies to the south of the town. It is so called from the legend of a barber who, having murdered his wife, was hanged upon its heights. Those having antiquarian interests must not fail to inspect Eliseg's Pillar, which is to be seen in a meadow close to Valle Crucis Abbey. Though its history is shrouded in doubt and has led to much

wrangling among antiquaries, this at least is certain—that "it was erected to the memory of Eliseg, father of Brockmail, Prince of Powis, by Coucen, or Cougen, his grandfather," and that it is well over 1,000 years old. It is a round, inscribed shaft, standing on a square pedestal. Originally 12 ft. high, it was thrown down and shattered at the instance of fanatical Puritan zeal in the time of the Civil War, Cromwell's soldiers mistaking it, no doubt, for a Popish cross. Although it has undergone every possible restoration, not more than seven feet of its former length is now in existence. Trevor Rocks and Panorama Walk are the popular objective of a three-mile walk; and the World's End, a natural amphitheatre or gorge, is a romantic spot worthy of "Lorna Doone" or "Aylwin" or the best of R. L. S. . . . And now, weary and footsore it may be, but with a mind teeming with scintillating visions and the earnest of happy memories for the future, onward and homeward! *Bon voyage!*

Those visitors who do not care to walk between Glyn and Llangollen will change at Chirk with the rest and proceed by boat along the S.U. Canal—a delightful journey—to Llangollen. Those not caring for exercise need, therefore, do no walking whatever unless they think fit.

The Insurance Dispensing Problem.

II.—An Examination of Contributory Causes.

In continuation of my remarks upon the *impasse* in which panel chemists find themselves with respect to the unexpected discounting of their bills for medicines supplied to insured persons, the causes which have contributed to this condition now fall to be discussed. These may be grouped as National and Local. How far the former are due to imperfections in the Statute itself it is, perhaps, too early to write. It was anticipated that experience would show that amendments are necessary, and some of these were made in the Amending Act of last Session. The principal weak point remains—viz., that allowance is not made in the Act, nor in the Regulations, for the different conditions in different parts of the country, all being treated alike. (1) Sufficient allowance was not made for the *large proportion of women workers in some areas.* Apart from the fact that women as a class are more liable to sickness than men, therefore are more frequent visitors to medical men, women largely preponderate in the industrial centres, such as Bradford and Leeds, which are typical of the places where the Drug has been exhausted, because insured females have made heavier calls on Medical Benefit than men. It is not fair that chemists should be expected to suffer for what they are not responsible for. (2) It has also been demonstrated that *insured persons in agricultural areas are freer from sickness than in populous centres.* In many such areas in Scotland panel chemists have received bonuses in addition to their accounts being paid in full, which demonstrates the fact that there is less cost for drugs. (3) It is also apparent that sufficient allowance has not been made for the enormous expansion of prescribing, and in consequence dispensing, under the Act. The Chancellor of the Exchequer boasted that the British workman would be able to call in a medical man at the early stages of disease instead of after being disabled through long weakness, in many cases after it was too late. The workman has taken the Chancellor at his word, but doctors and chemists are paying the increased cost where the amount contributed by the State is exceeded owing to the British workman taking full advantage of Medical Benefit. This is how the matter works out in practice. We know that the Chancellor did not mean it, nor the Commissioners; but now that they do know, common justice requires that they should endeavour to stop it by amending the Regulations or the Statute, whichever is the easier.

Chief of the local contributory causes is the size of the drug accounts, for which prescribers are responsible. It is a very simple thing to say, as the Government seem to be saying, that when the drug accounts go beyond the limit of 2*s.* per insured person, then there is over prescribing somewhere, and that chemists must see that it does not happen again. That explanation may be an admirable way of getting rid of a troublesome difficulty but the job thus put on chemists is not so simple as it looks. To the credit of the doctors, it may be said that they have not attempted to give panel patients the cheap and nasty medicine so much deprecated by Mr. Lloyd George. When one attempts to analyse the prescribing the first thing observed is the extraordinary variation in the habits and methods of medical men. One doctor's prescribing (I speak of the type) is habitually expensive. He regularly orders costly medicines, and must have the latest proprietary or synthetic, without regard to, or knowledge of, the cost of what he so freely goes in for.

Another type of prescriber finds all his requirements within the limits of official and non-official preparations. An analysis of a batch of Insurance prescriptions confirms this statement in a striking way: while the average price of all per form was 1*s.*, the average for individual doctors varied from 6*d.* to 1*s.* 5*d.* This has been so repeatedly referred to in these columns and from many quarters that it may be regarded as universal. Another local but less frequent contributory cause is due to the prescribers who, by their manner of prescribing, reduce the remuneration of the dispenser and swell the drug bill. This type of medical man, in order to save his own time, prescribes concentrated mixtures and quantities of medicines which last for some time, but which may, or may not, be used. A dispensing-fee of 2*d.* for twelve or sixteen doses put out in, say, 6-oz. or 8-oz. mixtures, has been considered a fair average, but some doctors order the same size mixture to be taken in ½ or 1 drachm doses. Thus the chemist suffers. Another class of doctors neither prescribe expensive remedies nor are inconsiderate as to the quantities prescribed or the work that they give panel chemists. Their prescribing is good, the medicines moderate in cost, and the amount of the chemist's time occupied in dispensing the prescriptions is not above the average. Yet when one comes to reckon up values, one finds that, although the price per form is under the average, the value per insured person is actually above that of the doctors whom we consider to be the more expensive men. My own observation shows that this class is more largely responsible for encroaching upon the floating sixpence.

I believe that the foregoing are in the main the causes of discounting. There are others, but they are neither so potent of mischief nor so universal. It is apparent that they are conditions which do not arise from the Drug Tariff nor from anything over which the chemist has control; he is at the mercy of the systems of medical treatment which prevail among panel doctors. How can he deal with the difficulties? The reply to this question I reserve for the next article. (230/50.)

CHEMICAL SOCIETY.

The ordinary scientific meeting at Burlington House, London, W., on May 7, presided over by Professor W. H. Perkin, F.R.S. (President), contained little of interest to pharmacists. The first paper,

Researches on Santalin, Part II.,

by Drs. J. C. Cain, J. L. Simonsen, and C. Smith, read by the last-named, possessed a pharmaceutical flavour in its title, but was chiefly of interest for purposes of record. The authors are now of opinion that the formula previously assigned to this compound should be doubled—*i.e.*, $C_{20}H_{18}O_{10}$, this being the result of molecular-weight determinations by Barger's method in pyridine solution of diacetylsantalin, dimethyl and monomethyl santalin ether. The presence of four benzene rings in the santalin molecule appears to be indicated by the oxidation-products of monomethyl santalin ether and nitrosantalin dimethyl ether. The authors suggest that santalin is probably a dianthracene derivative. As a result of their researches on

The Nature of Molecular Association

Dr. W. E. S. Turner and Mr. S. English conclude that while associated substances have a marked tendency

to form molecular compounds, the forces producing molecular compounds and molecular aggregates are different: molecular compounds are produced by non-associated substances, and mixtures of associated substances can often be obtained without chemical combination. Dr. Julian Baker read a paper by himself and Mr. H. F. E. Hulton on

THE ACTION OF DIASTASE ON STARCH GRANULES.

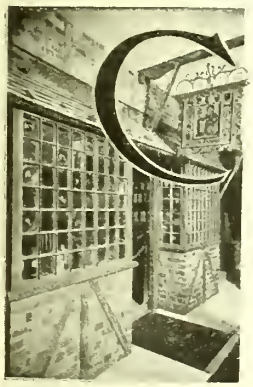
These authors do not confirm Brown and Morris's statement that the only product of the action of precipitated malt diastase on starch granules at ordinary temperature is maltose. By submitting the products of such action to fermentation, alcoholic fractionation, and dialysis they isolated a dextrin which had a molecular weight exceeding 1,500, and rotatory power of $[\alpha]_D$ 177°, and a cupric-reducing power varying between 11 and 20 per cent. of maltose. From this dextrin, which constitutes about one-fifth of the conversion-products, there were also obtained maltose and a dextrin or dextrins of the same molecular weight and optical activity as maltose, but of much less cupric-reducing power. A communication read by Dr. F. Soddy was in conjunction with Mr. H. Hyman and related to

THE ATOMIC WEIGHT OF LEAD FROM CEYLON THORITE.

These workers find the molecular weight of lead from Ceylon thorite to be 208.4, compared with 207.1 for ordinary lead. This they consider supports their views that lead is not a true element, but a mixture of isotopes or closely associated elements of almost similar molecular weights. The isotopes from uranium and thorium are 206 and 208.4 respectively, and calculation gives the value of 208.2 for the lead in Ceylon thorite if it is entirely the product of radioactive origin from the uranium and thorium it contains.

The last paper, by Dr. J. W. McBain and Mr. F. C. Coleman, was a criticism of the hypothesis that neutral salts increase the dissociation of weak acids and bases.

The Wellcome Historical Medical Museum.



CHEMISTS who take an interest in the archæology of medicine and pharmacy will be glad to know that the museum illustrating the history of medicine which was founded by Mr. Henry S. Wellcome last year in connection with the XVIIth International Congress of Medicine is to be reopened on May 28 as a permanent institution. The museum is at 54A Wigmore Street, Cavendish Square, London, W., and the Curator is Mr. C. J. S. Thompson, a pharmacist who has for many years made a special study of archæography. Last year, in referring to this exhibition in its original form, we mentioned that many of the specimens had been loaned to the museum. Some of these have been reclaimed by the owners, but the greater part remain, and have been supplemented by the loan of many other specimens. The interest in the museum last year was such that many medical men and chemists have since recognised the advantage of depositing rarities in a specialised museum. At the same time, the section dealing with tropical medicine has been removed to the Wellcome Research Institute, and this has enabled the Curator to rearrange the collection with a view of enhancing the educational value of the museum. It should be borne in mind that the aim of the museum is not to be a mere collection of curiosities, but to give a proper perspective to medicine and pharmacy. Under the guidance of the Curator, the writer has had an opportunity of visiting the rearranged museum and noting the changes that have been made since last October. The Hall of Primitive Medicine, which is the first in order, contains objects associated with native practitioners in various parts of the world. There are, for example, many figures of medicine men in full costume, and a collection of fetish figures. Early instruments used

[*Copyright of the Museum.*
INTERIOR OF EIGHTEENTH-CENTURY PHARMACY AND LABORATORY.

in surgery—flint scrapers or pieces of obsidian—have a place here, and the glass case filled with skulls which have been trepanned brings home the reality of early surgical operations. There is here also a large collection of charms, amulets, and talismans, arranged geographically, not the least interesting being those used in our own country. Visitors should especially notice the series of twelve oil-paintings of life-size anatomical subjects attributed to D'Agoty, the French anatomist (1710-1785). The Hall of Statuary is on the same plan as last year, but the grouping has been considerably advanced, progress having been made in the cases illustrating the evolution of surgical instruments, tooth-brushes, and mechanical dentistry. The large collection of votive offerings is still a feature of this hall. In the gallery are early books and manuscripts dealing with medicine and pharmacy, early microscopes and spectacles. Pharmacists will be especially interested in a section devoted to theriaca, in which the aim has been to show specimens of the numerous ingredients used in compounding that wonderful confection and samples of the finished product, with books and relics dealing with the subject. The Gallery of Pictures contains many relics of medical men—Jenner, Paget, Simpson, Clark, and Quain—with glass cases containing

[*Copyright of the Museum.*
INTERIOR OF THE ITALIAN PHARMACY.

touch-pieces, pocket medical cases, and coins. Sir Lauder Brunton has lent a collection of instruments which he used in his early experiments on blood-pressure. The ground floor is especially of interest to pharmacists from the large collection of pharmacy-pots, mortars, Pharma-

copœias, labels, account-books, etc., and the reproductions of chemists' shops, which were a feature of this section last year. An addition has been made of a complete Turkish medicine-vendor's shop, which forms an important link with the past. The interesting fact is that this very shop was in working order in Constantinople early this year, and the whole establishment has been transferred to London and reconstructed in every detail. Considerable additions have been made to the collections of feeding-bottles, pap-boats, food-warmers, and other articles sold by chemists. It might be emphasised here, however, that there are still a few gaps to fill, and those of our readers who have old-established businesses might be able to supply specimens of old stock needed to complete the collection. Quassia cups, for example, are represented, but so far no antimony cup has been offered to the museum.

The museum is to be reopened on May 28, and will be open daily from 10 A.M. to 6 P.M., closing at 1 P.M. on Saturday. Doctors and chemists are admitted on presenting their cards; other visitors must be vouched for by a medical practitioner or pharmacist, as the museum is not intended for the general public. The initial letter of this article consists of a photograph of the exterior of the seventeenth-century pharmacy which is reproduced in the museum.

Notes on Novelties
and other matters of trade interest

Brevities.

Mr. Vincent Wood, Victoria House, Blackfriars Bridge, London, S.E., offers oversea buyers good value in trusses and other surgical appliances.

Mr. Alberto Zinser, Gertrudenhof, Hamburg, invites correspondence from buyers of drugs, chemicals, and pharmaceutical goods generally for exportation to any part of the world.

Messrs. H. C. Quelch & Co., 4 Ludgate Square, London, E.C., are offering compressed Poudre de Riz in rose colour, complete with a dainty powder-puff. It is an attractive line.

Venesta, Ltd., 1 Great Tower Street, London, E.C., are makers of collapsible tubes, shaving-stick cases, pots, and other containers, some of which are illustrated in their advertisement.

Messrs. H. T. Boothroyd, Ltd., Bootle, Liverpool, are the manufacturers of an excellent emulsifier, which is specially suitable for pharmaceutical work, and is made in 8-gal. to 10-gal. sizes.

"Cinol" is a preparation manufactured by Thomas Keating for killing nits in children's hair, which it does as effectually as Keating's powder destroys other insect-life. It sells in twopenny tins.

McClinton's Colleen Soap and its associate preparations are still growing in public estimation, largely owing to the fact that Messrs. McClinton's, Ltd., Donaghmore, Ireland, are advertising them well.

Odol Chemical-works, 59-63 Park Street, London, S.E., provide chemists with Odol toothpicks at 3*s.* per gross, with an exhibition-stand which is figured in their advertisement. It is a profitable line.

Calvert's Carbolic Tooth-powder is one of the things that chemists are asked for. It is the standard in this line of goods, and the manufacturers, Messrs. F. C. Calvert & Co., Manchester, London, and Montreal, will send a price-list of this and their other carbolic preparations to any buyer on application.

Rajar Competition.

The prizes offered by Rajar, Limited, Mobberley, Cheshire, for their Easter competition for prints on Rajar papers and postcards made from negatives taken on Rajar roll films or Rajar plates have been awarded as follows: First prize (five guineas) to Horace Wright, East Dulwich; second prize (two guineas) to J. H. Saunders, Leeds; third prize (one guinea) to L. Elias, Llandudno; fourth prize (half a guinea) to F. P. Ayles, Weymouth.

"The N. C. R."

is the title of an illustrated publication brought out by the National Cash Register Co., Ltd., 225 Tottenham Court Road, London, W., for circulation among their staff and customers. The last number, dated April 24, is interesting as dealing with the subject of patents for inventions and their influence on national prosperity. Those of our readers who would like to see this publication should send a postcard request for a copy to the National Cash Register Co., Ltd.

American Specialities.

The American Drug Supply Co. (Mr. Charles Brooks), 6 Trafalgar Buildings, London, S.W., have this week published their 1914 price-list of American and English proprietary medicines. It contains over a hundred pages. There seems to be everything that American visitors want, besides those goods of transatlantic origin which English doctors prescribe, especially the out-of-the-way things. A call at the company's new warehouses the other day demonstrated the fact, although demonstration was not needed, that the company "have the goods" and can supply retailers, wholesalers, and shippers promptly. The company have special agencies for the manufactures of Messrs. Daggett & Ramsdell, G. W. Carnrick Co., Carbona Products Co., Pineoleum Co., Tucker Pharmacal Co. (Bromo-Adonis), R. Hudnut, Odor-o-no Co., French Lick Springs Co. (Pluto Water), Murine Eye Remedy Co., and Resor Bisnol Chemical Co. A copy of the price-list can be obtained by any of our readers on application.

German and Continental Proprietaries.

Messrs. Schacht, Warner & Co., 55 Fore Street, London, E.C., publish a useful price-list of German and other Continental proprietaries, rare chemicals, perfumery, etc., which extends to over 100 pages. The price-list has a thumb index which makes easy reference, and includes besides the alphabetical sections a special one devoted to Lohse's specialities, another to soaps, and a third to Italian specialities. The firm keep stock of these out-of-the-way preparations both in the City and their West-end premises. They also undertake the dispensing of foreign prescriptions calling for preparations in the French, German, Italian, Russian, Spanish, Swiss, United States, and other Pharmacopœias. Copies of the list can be obtained by chemists on application. We mentioned last week that a horse had stepped into the shopfront at Fore Street. The window is now all right. As soon as the horse retired (unhurt) the firm had the broken window boarded up with the following notice which proved a good advertisement: "Our windows are broken, but our nerves are whole. Schacht's Lecithin strengthens weak nerves. Business as usual."

"The Pharmacists' B.D.H. Remembrancer."

The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N., are now sending out periodically to their customers an illustrated price-list of "Ready for Retail" specialities. This "Remembrancer" includes

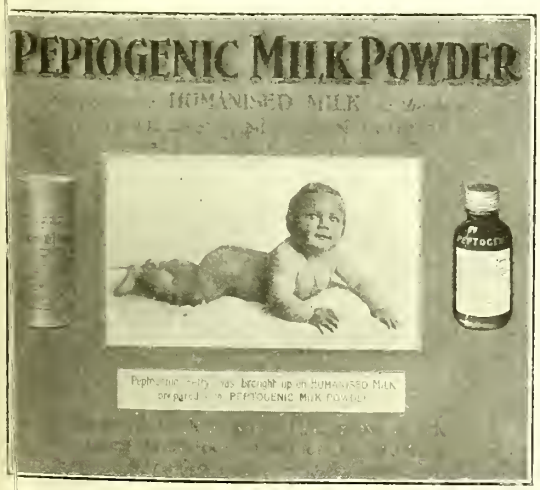
llustrations and prices of Jellax, nursery Jellax, antiseptic shaving-powder, and Sweet Lavender dry-shampoo powder, all of which we have had the opportunity of examining and find them to be excellent. Besides there are quotations for effervescent salines, blood-mixtures, and Frozen Foam which meets the requirements of "The Times'" writer on sun-spots. Each article has space on the label for the name and address of the retailer. In every instance the style of the article is first class, not only as regards the quality of the preparation, but in the artistic appearance of the get-up; and the manufacturers have not overlooked that what retailers want nowadays is something that the public want. We also notice that the company are producing an antiseptic perfume for cinemas, which reminds one of an Old English garden in spring, and 1 oz. of which suffices to make a gallon of perfume-spray. The "Remembrancer" will be sent on application.

Lait-Larola.

Messrs. M. Beetham & Sons, Cheltenham, inform us that they are discontinuing at the end of this month the sixpenny trial bottles of Lait-Larola, so that in future the shilling size will be the smallest. They are justified in this change by the public demand for the shilling size and the fact that it has become an established article with dainty folk, one of whom is depicted on the showcard which we reproduce here. The original is beautifully printed in colours, and measures 12 in. by 7 in. There are also two cut-out cards which stand in easel style. One shows a mother and child whose complexions reveal the use of Larola, and another is an auburn-haired maiden who is proclaiming the fact that "Beauty's aid" is Beetham's Larola. This is 7½ in. high by 7 in. wide. Any chemist can obtain these cards from Messrs. Beetham, post free on application.

The Showcards

now being issued by Messrs. Fairchild Bros. & Foster, 65 Holborn Viaduct, London, E.C., to which brief reference was made last week, are novel in design. One is for Panopepton, the "nutrient and food stimulant for invalids," the card measuring 17 in. long by 11 in. deep. The design bears emblems of the constituents of the preparation—namely, a sheaf of wheat at one side of the wording, over it three heads of oxen, and at the right-hand side a bottle of Panopepton. The design is effective, and it is carried out in a simple fashion. The card is varnished, and there is a loop to hang it up by. We reproduce the other card in reduced facsimile and in monochrome. The original is very effective. The words "Peptogenic milk-powder" and the bottles at each side of the photograph of the baby are in relief and coloured. The rest of the wording catches the eye forcibly, most of it being printed in rich blue ink. Either or both the cards may be obtained post free from Messrs. Fairchild Bros. & Foster on application to the above address or to their agents, Messrs. Burroughs Wellcome & Co.



In Central Africa.

The engraving included in this paragraph is reproduced from a half-plate photograph that Messrs. Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, have recently received from a missionary in the interior

of Africa. The group of drugs in the foreground was supplied by Messrs. Evans. The tall woman standing under an umbrella in the centre is holding a card of Savars' disinfecting-tablets, and to her right is a case of Evans' birdlime. It seems that the Savars' disinfecting-tablets are appreciated by the natives, and no wonder. On another occasion that the missionary was going through the country on his motor-bicycle he stopped at a town which he had not previously visited, and there found a native holding a school on the verandah of a hut and teaching his pupils the alphabet, using for the purpose a Savars' disinfecting-tablet card. On the present occasion the natives were very much interested in the missionary's photographic camera, but some of them were not quite sure of it, and one lady actually turned her back to it.

The "Doomo" Fly-catchers.

Messrs. Jno. H. Smith & Co., "Doomo" Works, Newark-on-Trent, tell us that there has rarely been so early a demand for fly-catchers as there has been this season, and they are working night and day. Their "Airship" fly-band is 3 in. wide and 2½ ft. long, thus giving enough sticky space to catch over 200 flies. Chemists will bear in mind that—

"The early fly's the one to swat,
It comes before the weather's hot,
And sits around and files its legs,
And lays at least ten million eggs,
And every egg will bring a fly
To drive us crazy by and by."

Messrs. Jno. H. Smith & Co. will be glad to hear from buyers, and will furnish quotations on application.

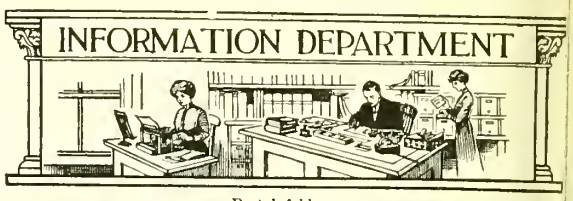
Anglo-American Exposition.

TEMPTED by fine weather, one of our staff was this week lured to Shepherd's Bush to see if any of the exhibits are of special interest to our readers. This Anglo-American Exposition is the latest exhibition of a series that have been held at Shepherd's Bush for the past few years, and although the buildings have been furbished up, the general plan remains the same. As commemorating the signing of the Treaty of Ghent in 1814, and the century-long peace between the United

Kingdom and the United States that followed, which is given as the *raison-d'être*, the exposition cannot be regarded as particularly effective. Probably, however, the greater number of the visitors go to Shepherd's Bush to be amused, and in this respect the picture-gallery, bands, and side-shows will be ample compensation. After passing through the entrance hall (the "Hall of Peace") one reaches the open air ("Court of Honour") where the hot sun is tempered by the lake and waterfall. On the left is the Palace of Science in which are several exhibits interesting to our readers. There are, for example, collections of rain-gauges, sunshine-recorders, and instruments for recording seismic disturbances. The Royal Astronomical Society contribute optical instruments to this section, and the Home Office show a large collection of minerals. There is a fine collection of photographs of scientists, chiefly chemists, including a series of contemporary chemists. There are relics also of Faraday, such as his specimen of bromine, which Balard the discoverer gave him, crystallised silica from Deville, and yttria phosphate from Fiedler. Sir William Tilden shows an autograph letter from Sir Humphry Davy dated Idria, August 23, 1818. St. Bartholomew's Hospital exhibits early burettes and old retorts, and the Imperial College of Science and Technology illustrates the methods of determining carbon and hydrogen in organic compounds. Sir John Cass Institute contributes photo-micrographs of metals, and Mr. Arthur Holmes illustrates the distribution and methods of determining radium in rocks. Among the other exhibits are a case of surgical instruments by Messrs. S. Maw, Son & Sons and a large display of hospital furniture and ancient and modern instruments by Messrs. Arnold & Sons. Dallmeyer's lenses, vitreosil ware, and Oertling balances are also shown here. Further on is a building devoted to "Alimentation and Forestry," the latter being represented by specimens from the Cambridge School of Forestry. The alimentation referred to is largely of the liquid variety, but not in consequence devoid of interest. Messrs. Bowen & McKechnie, known to chemists, are exhibitors of whisky, and an unexpected exhibit of antiquities found in excavating for the buildings of Barclay's brewery includes a Roman mortar in earthenware. Tate's sugar and the Kepler malt products are also exhibited in this section. "Chemical Science and Social Economy" is the title of the next building, wherein are exhibits not yet completed by Burroughs Wellcome & Co., Fairchild Bros. & Foster, Hopkin & Williams, Ltd., the Anglo-American Oil Co., Ltd., and the British Petroleum Co., Ltd. The exhibit of Burroughs Wellcome & Co. bids fair to dominate the building, as there is a series of cases illustrating not only the commercial products of the firm, but drug-cultivation and the work of the Chemical and Physiological Research Laboratories. On the right-hand side of the Court of Honour is the Palace of Industrial Arts, in which the finest exhibit is that of the National Cash Register Co., Ltd. This deals with the welfare as well as the commercial side of the business, and has connected with it a small lecture-room, where lantern-slides give a good idea of the model factory at Dayton and the activities connected with it. Burroughs Wellcome & Co. have a photographic exhibit in this section, and the exhibit also deals with welfare work at the Dartford Club and Institute. In the grounds the United Drug Co. have established a Rexall pharmacy. This is a complete building with many windows, each dressed with the special preparations of the company. It is intended to sell these products, the interior being arranged with glass counters, like a chemist's shop.

German Soda Profits.—The German Solvay Works, Bernburg, made a net profit of 385,000*l.* in 1913, against 392,260*l.* in 1912. It is not stated what dividend is being paid. Arrangements are being made to increase the output considerably.

Jamaica is the latest of British Possessions to give effect to the International Opium Convention (signed at The Hague on January 23, 1912) by the issue of the "Opium Law, 1913," to regulate the importation and disposal of opium, morphine, cocaine, and similar drugs in the Colony. The law excludes the importation of prepared opium and ganja (*Cannabis indica*).



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224/15. Dr. North's ointment
226/56. Douglas's "Real Cure" (for rheumatism).
227/2. Gwillym Evans lung-balsam.
227/200. Boyd's onion salt.
227/201. Mrs. Martin's cure for piles.
227/1. Bland's metal foot-arch support.
228/67. Jean Morel's hair-restorer.
227/14. "Aiouni" (for early cases of leprosy).
231/29. "Mela-Capaline."
231/28. "Nipon" aseptic handkerchiefs.
230/50. "Rose Foam" bath-soap.
230/29. Jambert's compressed sodium peroxide.
231/42. Sabatier's ink.
231/40. Roger's beetle-virus.
230/17. "Willow" feeding-bottle.
220/24. Castell's hair-cream.
221/18. Metal measures of 5 to 10 grain capacity for powders.
42/42. "Golden Nut" oil.
221/69. Howick's feeders.
221/690. "Old London" beetle-destroyer.
225/60. Celluloid - topped corks.

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Caoutchieine, 228/72
Cellophane (for South Africa), 229/32
"Climax" weed-killer, 214/71
Dung's Elixir Calisaya, 224/14
Feeding-cups, 229/59
Equinoint, 230/30
Feluna pills, 228/67
Gurjun oil (ton-lots), 224/56
Hartland's anti-obesity treatment, 227/60
Himrod's asthma-cure, 230/6
"Kolynos" tooth-paste, 230/16
Lafitte's toilet-preparations, 227/61
Laxamel, 230/25
"Leviathan" brand oil of peppermint, 223/16
"Lombio" ointment, 230/7
Mackenzie's polygraph, 228/68
Maculine, 229/23
Morris's Imperial eye-ointment, 220/57
Magnesia, refined, 221/23
No-To-Bac, 223/69
Nutmegs (importers), 226/502
Oleac, 217/46
Olive-oil importers, 228/11
"Omnium" bandages, 217/63
Onadol, 226/54
Orris-root (for Egypt), 226/500
Orthoform, 222/64
Oxygenol, 220/27
"Palmolive" soap, 219/8 and 225/54
Peach's tooth-cream, 216/48
Parrish's chemical food (original), 229/5
Phosphocose, 222/63
Pitsno, 224/14
Planten's capsules, 230/5
Pneusosan, 229/6
Pro-phy-lactic, 218/59
Pumilave soap, 227/53
Pyridine, 228/720
Radium-water, 216/34
"Red Rub," 220/40
Ricqlès's alcool de menthe, 218/55
Rigaud's perfumes (London agents), 217/47
Russian ergot (exporters), 225/52
Sandalwood (in chips, logs, etc.), 226/501
Sarsaparilla (importers for Egypt), 226/50
Scrotal and inguinal trusses, 223/9
Seidlitz-powder folding-machines (for Paris), 218/3
Sowerby's glass tumblers, 220/28
Spasmine, 217/38
"Spiralette" fly-papers, 221/69
"Stainoff," 227/14
"Syracuse" suspensory bandages, 223/64
Stovaine, 219/13
Tooth soap-tablets (in celluloid boxes), 224/22
Trebmall's domestic measures, 221/691
Talcum Puff Co.'s powder, 214/71
Ulmareine, 224/13
Uniforms for pharmacists, 221/51

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The Insurance Dispensing Problem

is the question of the hour, and it is urgent. If we pharmacists are intended to retain the place assigned us under the Act something must be done, and done speedily, to reassure us with regard to it. Discontent grows daily, and threatens to break out in open revolt. Even the Pharmaceutical Council's inertia—or perhaps I should say silence—is disturbed at last, and local Associations are, as your contributor whose heading I have borrowed said last week, "with difficulty kept in hand" when the subject is mentioned. But virtually the only Parliamentary attempt to deal with the situation is made by a member whose known hostility to the Government largely discounts whatever he says, the consequence being that our case becomes a mere shuttlecock in a party game. It is, of course, easy to exaggerate the difficulties we are in, and I regret to see that the contributor already referred to shows a tendency to do this. He says that "in the Midlands" the deficiency in payment of our accounts is 50 per cent. He means, I suppose, that it is so in one or two notoriously exceptional cases. The instances he mentions further north do not amount to this figure, yet they too are exceptional, and it is to be feared that agitation based on such data will defeat its own object. There is the more reason why the belated inquiries of the Council should be "speeded up," and their "national action" begun. Meantime I will put your question of the week before last in a different tense, and ask, not What will Mr. Glyn-Jones do? but What is he doing? Why does he leave so much to Mr. Locker-Lampson? Could he not at least keep Mr. Wedgwood Benn a little better posted up than he appears to be?

Questions

such as I have been putting may perhaps be thought premature by some readers, and I confess that I put them with a certain reluctance. Mr. Glyn-Jones has served us splendidly in the past, and I should be sorry to create the impression that he has not the confidence of the trade. I do not know what reason there may be for what looks like inactivity on his part in this matter, or how far it is due to timidity or, if they prefer to put it so, to policy on the part of the Council. But I am certain of this—that we are getting tired of this waiting game. It may be the only possible or the best game, but it must be explained and justified by a frank statement of what has been and is being done, and the reason why nothing more is possible, if the Council are to retain our confidence. They have done all they could to keep this business in their own hands; the least we can demand is that they should let us know precisely how they are handling it. In the face of our uncertainty in this respect and the urgency of the case, the detached, indefinite attitude of the candidates for the Council, upon which I remarked last week, is almost comic. Most of them appear to have worked "behind their own counter" until they can see nothing beyond it. What we want is a leader who will either force the Council to intervene actively on our behalf or organise a demonstration of the trade independently of the Society. The Government ought to be made to understand that contracts will not be renewed unless accounts in accordance with the Tariff are paid in full.

The Salt-of-Tartar Case

reminds me of Leech's groom. "You see, sir," said he, "Ladies knocks a hoss up so; they gets on him, and they says, 'My eyes, he's a hoss, and he must go.'" Similarly Mr. Jones, the Staffordshire county analyst, says of the pharmacist, "My eyes, he's a druggist, and everything he sells is a drug." According to him such things as washing-soda and soft soap, when sold by one of our craft, for whatever purpose they may be required, must conform to the B.P. standard. It is flattering perhaps to find so much expected of us, but just a little awkward; indeed, I doubt whether our title is worth purchasing at the price. Would the style of "Druggist and Drysalter" exempt us? It seems to me that Mr. Jones and the Magistrates who decided in accordance with his opinion did their best to reduce the Statute to an absurdity.

Sir Ronald Ross

has been on the warpath for some time in favour of subsidising the research-worker. There is a good deal to be said for his proposals, as the world owes much to the quiet men who give their lives to research rather than to the accumulation of vast wealth. I would be well pleased to see all our capable research workers placed in an independent position, but where are we going to draw the line? I know many research-men who would think they were "in clover" with the salary of an M.P., 400*l.* a year, but I know others who would turn up their noses at anything less than 2,000*l.* These latter must not only have the quiet life, but they must have a motor as well for the family shopping and calls. What is to be the golden mean between these figures? Then there is another trouble. Once research becomes a well paid "industry" men and women will flock into it, some capable and some the other kind. The genuine research-worker is born, not made, and he sometimes cannot pass examinations. How is he to be encouraged? Quite simple: we shall make him work!

Two Years Ago

I prophesied that the Patent Medicine Inquiry would end in smoke. I confess that the wish was father to the thought, and that I did not give the Committee quite so long a lease of life as it has actually enjoyed, but if present appearances may be trusted my forecast was substantially correct. From the outset it was clear that the doctors had misjudged their case, but the extent to which they had done so was not apparent until Mr. Umney and other witnesses on the same side had given evidence. It was then seen to break down at every point; it was, in Mr. Gladstone's words, "smashed and pulverised"; Humpty Dumpty himself after his famous fall was not more hopelessly beyond the possibility of being set up again. Sir Henry Norman's draft report, if it ever appear, cannot fail to be an interesting document, whatever conclusions it embodies; and if it proves acceptable to the doctors it will be a triumph of dialectic that should afford pharmacists almost as much amusement as the evidence on which it is based.

Dispensing for Unions

by pharmacists after the manner referred to in your note descriptive of the work done at Tynemouth furnishes an example that may well be followed by many Unions throughout the country, and the idea ought to be heartily supported by pharmacists who may be favourably situated for such work. The working of the Old-Age Pensions and Insurance schemes will tend to reduce the numbers of inmates in Unions, and it may happen that part-time appointments may become more common than they have been. There are two ways in which such dispensing may be done—either by arranging to have the prescriptions sent to the pharmacy, or, following the Tynemouth method, sending an assistant to do the work on the spot. Where the conditions render it possible the latter method is much to be preferred, since in this way the Guardians cannot refuse to pay the proportion of the assistant's salary, which might not be so easily earned from dispensing-fees were the work done in the pharmacy. The same system might be encouraged for cottage hospitals and smaller institutions that cannot maintain a full-time dispenser and have often to rely on unqualified nurses.

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Editorial Articles.

Accountancy and Delay.

THE present unforeseen difficulty that panel chemists in Scotland find themselves in as regards payment of their accounts for the first quarter of this year is in part due to exceptional sickness in that period, but the first annual balancing on the part of the Commissioners and the consequent caution in doling out the money may be regarded as the direct cause of the apparent *impasse*. On March 31 the Scottish Commissioners issued to Clerks of Insurance Committees throughout Scotland a statement in regard to provisional credits, and in so far as this bears upon Medical Benefit contributions it interests panel chemists and doctors. It must be borne in mind that the Commissioners' basis for payment to Insurance Committees with respect to Medical Benefit is the cards of members of approved societies which the Commission receives. During the first quarter of 1913 the Commission received 1,454,465 cards; the number was reduced to 1,449,735 in the second quarter, to 1,427,814 in the third quarter, and the number further decreased in the fourth quarter, when only 1,357,665 were received. On March 31 only 756,462 cards of membership had been received in respect to the fifth quarter—*i.e.*, the first quarter of this year. The Commissioners are not authorised to pay to the Committees more money than is represented by these figures, and as regards the last it is obvious that half the insured persons in Scotland have not suddenly ceased to exist. The remaining cards are bound to come in, and credits will be duly passed. The Commissioners explain how they arrive at, or expect to arrive at, the ultimate exact sum payable to Medical and Sanatorium Funds. The provisional amounts were as follows:

	£	s.	d.
Medical Fund (including domiciliary 6*d.*) ...	643,555	14	9
Sanatorium Fund (exclusive of domiciliary 6*d.*)	105,269	19	11
General administration	44,183	4	8

Certain circumstances and conditions have to be taken into account for the final settlement, including certain deductions, as to which the letter says:

"In making these deductions the Commissioners had in view the desirability that Insurance Committees should immediately be placed in the position of being able to

distribute as large a sum as possible in payments to doctors, chemists, etc. They considered, however, that it was undesirable that over-payments should be made which Committees would have to endeavour to recover from individual practitioners, etc. While there may be a certain risk of small over-payments in particular areas, the Commissioners are of opinion that on the provisional credits over-payments, if any, will be so unsubstantial as [not] to create any injustice as between the doctors and chemists in the different areas. On the other hand, on the information before them, the Commissioners consider that in a number of areas the Insurance Committee will be able to count on receiving only a small, if any, further payment, and that additional sums ascertained on the final adjustment will probably fall to be distributed only to a proportion of the total Insurance Committees."

No indication is given of what areas are not to receive further payments, but presumably the textile industries centres, Aberdeen, Dundee, and Dunfermline, are among them, for there female labour is most abundant and the Drug Funds are most deficient. It is satisfactory to know that this condition is not general, and the object of this note is to give assurance on the point, also to emphasise the fact that the shortage is accounted for partly by the annual balancing. At the same time, we do not overlook the fact that in the case of doctors payment is made for medical attendance during the year upon the persons on their lists, but if the chemists' contracts are to mean an unlimited supply of drugs to these persons at 2*s.* a head it would be against all the elements of British justice and sense of fair play to ask chemists to continue such contracts, involving as they do expenditure on the purchase of goods which may not be repaid by the Drug Fund.

Commercial Travellers' Taxes.

Four years ago the Board of Trade issued a Blue Book showing the regulations applicable to British commercial travellers in India, the Colonies, and foreign countries, a summary of which was given in our columns at the time. Another edition has now been published on similar lines, bringing the information up to date and considerably amplifying it. Particulars regarding the treatment in the United Kingdom of foreign commercial travellers and their samples are given in an addendum. Incidentally there is much valuable information to business houses, especially in regard to the Customs and railway treatment of travellers' samples. The bulk of the information has been obtained from official documents, and is therefore authoritative. Dealing first with the British Self-Governing Dominions, we find that none of the States of the Australian Commonwealth impose any special regulations or taxes on commercial travellers, but in the Dominion of New Zealand commercial travellers, whether representing one or more firms, are required on arrival to pay a deposit—usually about 10*l.*—as a guarantee that the income-tax due on the business done in the Colony will be paid. British India and the natives States have, of course, no special taxes on "commercials," neither has the Dominion of Canada nor Newfoundland. On the other hand, South Africa has for over twenty years been an unfortunate exception, and in the Cape Province the traveller's tax still costs 50*l.* per annum. We summarise the principal taxes as levied by the various countries :

British Honduras.—The licence is now $50 gold (10*l.* 8*s.* 4*d.*). Formerly it was $10 (2*l.* 1*s.* 8*d.*).

Dominica.—A licence costs from 15*s.* to 5*l.*, according to the value of the goods.

Bechuanaland.—In this Protectorate there is a tax of 10*l.* per annum, the licence being personal, so that the traveller may represent any number of firms. Resident agents are liable to the same licence fee as ordinary commercial travellers.

Cape Province.—A licence costs 50*l.* per annum, or 25*l.* per half-year if only one firm is represented, and 5*l.*, or 2*l.* 10*s.* respectively for every additional firm up to a maximum of 100*l.* or 50*l.* respectively. Half-yearly licences can only be taken out after June 30; all licences expire on December 31. If the agent has been resident in South Africa for at least three years immediately prior to his application for a licence, half the above rates are payable.

Natal.—An annual licence costs 10*l.* All licences expire on December 31, but if taken out after June 30 6*l.* only is charged. Only one licence is required, no matter how many firms are represented. Double the weight of free luggage granted to ordinary passengers is allowed to commercial travellers.

Orange Free State.—A licence costs 5*l.*, and is available for three months, and any number of firms may be represented. Special facilities are granted to "commercials" on the railways.

Transvaal.—A licence costs 10*l.* per year, or 6*l.* for six months, all licences expiring on December 31; any number of firms may be represented under one licence.

Rhodesia.—The Chartered Company impose a tax of 30*l.* per annum on commercial travellers and agents. Concessions are given by the railways in regard to luggage.

In all other parts of the British Empire no commercial travellers' taxes are imposed, but in certain Possessions there are formal regulations to be complied with. Among the foreign countries dealt with in the report the Argentine Republic, Austria-Hungary, Bulgaria, Denmark, Germany, Mexico, Roumania, Russia, and Servia form the more important group requiring licences or certificates; while in the case of France the imposition of restrictions depends upon the treatment accorded to that country by other nations, so that if French travellers are exempt from special regulations in any foreign country, that country's travellers receive similar treatment in France. Another exception to the general rule is Japan, where the nature of the goods to be dealt in largely contributes to the necessity or otherwise of securing a licence. Most other countries have no special regulations of a Federal character, but individual State restrictions are noticeable in a number of cases. Some of the taxes and regulations are as follows :

Argentine Republic.—Varies according to the class of goods and the Province—*e.g.*, in Salta a drug-traveller pays $300 (about 26*l.*), and a perfumery traveller $300 also.

Austria-Hungary.—Special certificates required.

Bolivia imposes a municipal tax fixed by the different towns in the Republic, varying according to the class of goods dealt in.

Brazil.—Varies considerably, most towns requiring travellers to take out a hawker's licence.

Denmark.—A licence costs 160kr., or about 9*l.*; if representing more than one firm, a supplementary tax of 80kr. is payable for each firm. Licence must be endorsed by police and Customs authorities in each town.

Ecuador.—A tax of 100 sucres (10*l.*) is levied.

Germany.—A permit is required, obtainable from the police.

Mexico has elaborate regulations, extending to sixteen foolscap pages.

Norway levies a tax of 100kr. (5*l.* 11*s.*) per month. The duty on catalogues is 25 öre per kilo. (14*s.* 1½*d.* per cwt.). Sweden has a similar tax.

Paraguay.—Fees vary according to the importance of the firm or firms represented, which is decided by an advisory board of merchants. There are five classes, the fees varying from 16*l.* 6*s.* 6*d.* to 74*l.* 16*s.* 7*d.* per half-year.

Russia.—Two licences are required: (*a*) personal licence, costing 50 roubles (5*l.* 5*s.* 6*d.*); (*b*) trading licence, costing 150 roubles (15*l.* 16*s.* 7*d.*). In addition, provincial and town dues are charged at the rate of 15 per cent. and 10 per cent. respectively on the initial Crown tax, and also certain local varying dues.

Uruguay.—A licence costs $100 (about 21*l.*) annually, expiring on December 31, but the full annual charge must be paid regardless of the period of the year.

With regard to the United Kingdom itself, the report points out that foreign commercial travellers can carry on their business in the United Kingdom without payment

of any special tax, but when they solicit or take orders for goods for the sale of which a licence is required they must themselves take out such licence, unless their principals abroad are duly licensed in the United Kingdom. In an appendix to the Blue Book are given certificate forms adopted by the country levying taxes, and further information can be obtained at the Commercial Intelligence Branch of the Board of Trade, 73 Basinghall Street, London, E.C.

Adulteration in the United States.

Since Dr. Wiley resigned his position as Chief of the Bureau of Chemistry of the United States Department of Agriculture, and the succession of Dr. C. L. Alsberg to the vacancy, a certain amount of reorganisation has taken place, and from April 1 the food and drugs inspection work of the Bureau has been reorganised into three districts—Eastern, Central, and Western. In the Eastern there are seven laboratories—namely, in Washington, New York, Boston, Philadelphia, Buffalo, Savannah, and San Juan. There are five in the Central district—namely, Chicago, St. Paul, St. Louis, Cincinnati, and New Orleans; while in the Western district are four—at San Francisco, Seattle, Denver, and Honolulu, with a chief inspector in each district. A few of the decisions recently given under the Food and Drug Act are of general interest. In one case Sir Robert Burnett & Co. (Inc.), New York, an American branch of the old firm Sir Robert Burnett & Co., London, were charged with misbranding London dry gin which they manufactured in New York. It was labelled "London Dry Gin, distilled in New York, as at Vauxhall Distillery, London," and the Department considered this to be misbranding. The case was tried by Judge McPherson, who pointed out to the jury that the question which they really had to try was whether the application of the word "London" to the gin meant geographically that it was produced in London. He did not think so himself, remarking that you might as well say that French fried potatoes means potatoes fried in France. The jury returned a verdict in favour of the Burnett Co., but the United States—*i.e.*, the Department—was not satisfied, and moved for a new trial, which, however, was refused. A number of cases are reported in which manufacturers of compressed tablets paid fines for misbranding the tablets by putting less of the ingredients in them than was stated on the label—for example, $2\frac{3}{4}$ grains of acetanilide in a tablet instead of $3\frac{1}{2}$ grains. This is one of the best uses of the Act, and on the whole the Department does not stretch its powers too far. One of the most interesting cases reported is in regard to the adulteration and misbranding of extract of vanillin and coumarin. Here the preparation sold was a solution of vanillin and coumarin in weak alcohol coloured with caramel. No vanilla resin could be detected. The Department took the view that the use of the word "extract" and the colour of the preparation would lead buyers to believe that they were getting an extract of vanilla, and this they considered to be misbranding. The Court and the jury sustained this view, considering it an offence to use the word "extract" in such circumstances. We are of the same opinion.

Dental Panels.

The Incorporated Dental Society held a special meeting at Manchester on May 20 to make arrangements for a "Public Dental Service" by forming panels and devising a scale of fees. It is understood that this is in accordance with a request from the Insurance Commissioners, who perhaps are of opinion that the supply of registered dentists is inadequate or that their fees may be prohibitive. The chief points of interest lie in the tacit recognition of unregistered dental practitioners by a Government body and the close approach of dental service under the National Insurance Act. Dental treatment is one of the first items scheduled for additional benefit. Schemes by approved societies which have surplus funds will probably be put into operation in 1915 or the following year, as the depletion of sickness funds by insured persons with bad teeth is one of the outstanding points in the evidence before the Departmental Committee inquiring into excessive sickness. It remains to be seen whether the Government intend to hurry up Dental Benefit, but it behoves dental chemists to be ready to see that they get their share of the work when it comes.

"Truth about Sunburn."

In one of those interesting, quasi-medical articles which are becoming more frequent in "The Times" the "Science of Summer Living" has been dealt with, explanations being given of the effect of various rays of sunlight upon the skin. It is stated incidentally that sunburn is nature's method of protecting the tissues from the effect of the ultra-violet and hot red rays of the sun, and the writer adds, "face-creams and other translucent preparations are, of course, of little value." We object to the way in which this is put. The writer does not mean to condemn face-creams as being ineffectual, but ordinary readers will come to the conclusion that they are, and we would suggest to chemists that they should take advantage of "The Times'" error to make known to their customers the special properties of their face-creams. There is no question of the fact that creams containing a little glycerin and a fine powder (such as zinc oxide) are excellent preventives of the sunburn by ultra-violet and red heat rays—in fact, they are a scientific method of applying face-powder, which itself is as good a preventive of sunburn as anything, and conforms strictly to "The Times" writer's dictum. Face-creams used after exposure to sunlight should be oleaceous, and the smaller the proportion of fat or oil in them the better for the skin.

NEW BOOKS.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Apotheker, Kulturhistorischer Roman. By Carl Othmar. $7\frac{3}{4} \times 5$. Pp. 226. 3m.; bound, 4m. (Theod. Gerstenberg Verlag, Leipzig.) [The author, who has adopted the above pseudonym, is a pharmacist, Carl Tröthandl, of Traiskirchen. His aim in writing the novel has been to depict the sorry conditions in Austrian pharmacy which prevailed for thirty years before 1906, when the new pharmacy law brought some improvement. The story follows the careers of four young assistants, to whom we are introduced in the opening chapter, the aim of one and all being to find a lady endowed with beauty, youth, and wealth, the last especially being an indispensable asset to enable them to buy an "apotheke," for, as the author remarks in the concluding chapter, "there is scarcely any other profession which is so dependent upon mammon as that of the disciples of pharmacy." Those who read German will find the novel fair practice.]

Bocquillon-Limousin, H. *Formulaire des Médicaments Nouveaux pour 1914.* $6\frac{3}{8} \times 4$. Pp. 372+139. 3f. (Baillière, 19 Rue Hautefeuille, Paris.) [An annual publication which deals with new remedies, additions being made each year. The plan of the work is to give the synonyms, method of preparation, description, solubility, therapeutic properties, and methods of employment. A large number of additions have been made this year.]

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. A. Hawthorne, pharmacist, of Boston, has been appointed dispenser at the Portsmouth Royal Hospital.

The drug-samples submitted last quarter to the public analysts at Bedford, Bethnal Green, Glossop, and Southwark were all certified as genuine.

A man named Charles Simpson Crump, described as an analytical chemist, has been missing from his lodgings in Gateshead since Monday.

Plans for considerable alterations and additions to the premises of Boots, Ltd., at 50 Charminster Road, Bournemouth, have been passed by the local Town Council.

A fire which broke out last week-end in the dispensing department of the pharmacy of Mr. Leslie, Muirkirk Road, Catford, London, S.E., was extinguished before serious damage was done.

The Home Secretary has confirmed a closing order for chemists at Stourbridge. The hours of closing are: Mondays, Tuesdays, and Wednesdays, 8 P.M.; Thursdays, 1 P.M. or 8 P.M.; Fridays, 8.30 P.M.; and Saturdays, 10 P.M. or 1 P.M.

Portsmouth has followed Poplar in making electrolytic disinfectant-fluid. Plant has been installed at a cost of 500*l.* which produces 25 gals. of disinfectant per hour from sea-water. It is being supplied free to the public if they bring their own containers.

The next examination of the Spectacle-makers' Company is to be held in Glasgow on June 6, 8, and 9. Candidates desiring to enter for this examination should send in their application-forms without delay to the Clerk, 9, 10, and 11 Temple House, Temple Avenue, London, E.C. Candidates who failed recently in London are eligible for the June examination in Glasgow.

The Isle of Wight Education Committee is applying to the Board of Education for consent to the supply of tooth-brushes to scholars over the age of five. The committee's medical officer had obtained samples of a very good brush, which, purchased in the quantity proposed 8,000 for the year), would cost 1½*d.* each. If the Board of Education approves the expenditure the cost to the committee will be ¾*d.* per tooth-brush.

William Purton Charged and Remanded.

At the Bromley Police Court, before Mr. T. C. Dewey (presiding), Mr. J. W. Wheeler-Bennett, and Alderman T. Davis, on May 14, William Purton (63), business transfer agent, Westfield Villa, Southlands Road, Bromley Common, was charged on a warrant with incurring certain debts and liabilities with the following firms, and unlawfully obtaining credit from these firms, under false pretences and by means of fraud: G. Hayward & Co., Minehead, March and June 1912, 6*l.* 12*s.* 3*d.*; Farncombe & Co., Worthing, May 30, 1912, 16*s.* 8½*d.*; Cole & Potton, Bristol, July to December 1912, 7*l.* 19*s.* 4*d.*; S. H. Tucker, Bridgwater, October 18, 1912, 11*s.* 3*d.*; Marsh & Co., Church Stretton, March 19 to March 25, 1913, 8*s.* 7*d.*; J. Owen, Abergele, May 16, 1913, 1*l.* 9*s.*; G. Day, Pitminster, Taunton, July 16, 1913, 17*s.* 3*d.*; A. Rose, Lynton, July 15, 1913, 11*s.* 2*d.*; J. F. French, Torquay, August 23 to 29, 1913, 1*l.* 5*s.* 4*d.*; and Snell & Sons, Liskeard, August 30, 1*l.* 17*s.* Detective Inspector Baker said that on the morning of May 13 he, in company with Detective Sergeant Sharp, went to the prisoner's house. When told he would be arrested for obtaining credit by fraud from various parts of the country, prisoner said, "Oh, dear me, are you?" The warrant was read over to him, and Purton exclaimed, "But it is not fraud, it is only a debt; in fact, many of these people have already prosecuted me in the county court." The house was searched, and there was found a large number of articles, the majority of which were new. Witness asked prisoner, "What about these new goods? Where have they come from?" Purton replied, "I obtained them from various parts. I made no false pretences. I want you to understand that I wrote all letters, and obtained all the goods. My wife had nothing whatever to do with it. What are you going to do with these goods?" Witness replied that he would take them to the police station, and if possible find the owners. Prisoner then said, "If you don't find the owners of some of the goods, you might let my wife have them back. She has got to live while I am away." On the way to the police station, prisoner said, "What shall I get? Do you think they will deal with me at Bromley?" Witness said he could not tell him. Prisoner further remarked, "You know I bought some of these goods of Mr. Bennett. I do not know where he is now." The charge was read over to prisoner, who made no reply. Prisoner was remanded.

[In the *C. & D.*, 1912, August 17, p. 275, September 14, p. 424, November 30, p. 836, and December 21, p. 934, were reported instances where Purton had addressed postcard orders to chemists. The last occasion that we reported was February 14, 1914, p. 60, when we reprinted his order to two Keswick chemists for coal-tar soap, cod-liver oil, and eau de Cologne. Most chemists who received the orders ignored them, or sent the bill and waited for the money before despatching the goods. They are still waiting.—EDITOR *C. & D.*]

"Zoo-loo" and "Zam-buk."

At the South-Western Police Court, London, on May 19, Ernest Fenton (35), chemists' sundriesman, 28 Penshurst Road, Thornton Heath, was charged on a warrant before Mr. Lister Drummond with obtaining money by false pretences.

Mr. Coutts Trotter prosecuted, and explained that the ground of offence was that the accused sold as penny boxes of "Zam-buk" a preparation which was not "Zam-buk." The evidence of Mr. Arthur Davy, grocer, West Norwood, was to the effect that on February 24 last the accused called at the shop and represented that his firm had introduced on to the market penny boxes of "Zam-buk," an ointment, but renamed it "Zoo-loo" to avoid payment of the stamp-duty for patent medicines. It was decided, he explained, to make a demonstration in the neighbourhood by advertisement in order to create a demand for the article. Witness believing the representation bought boxes to the value of 5*s.* 8*d.*

Evidence was also given by Mr. W. J. Riche, grocer, both witnesses being cross-examined by the accused, who denied the charge. Detective Rand proved the arrest of the accused who, replying to the charge, said, "It is false."

The Magistrate ordered a remand and allowed bail in 10*l.*

Highwater Eye-treatment.

At Bow Street Police Court, before Sir John Dickinson, on May 16, John Highwater and Lily Grinyer were summoned for obtaining money by false pretences in connection with a business carried on in Gray's Inn Road in the name of Dr. C. G. Percival. Extensive advertising of an eyesight treatment induced Mr. Brutrus Ghobrial, a medical dresser at Charing Cross Hospital, to write to the address and to undergo the treatment by massage, for which he paid a guinea, but got no better. It was a money-back treatment, and as he could not get his guinea back he, on the advice of the British Medical Association and the Medical Defence Union, informed the authorities about the matter. The director of Public Prosecutions took the present proceedings, the case for the prosecution being that the statements to the effect that there was a Dr. Percival were quite imaginary statements. The business appeared to be run by a limited company called the Highwater Laboratory and Manufacturing Co., Ltd., of which the managing director was the male defendant. A clerk from the Companies Department of Somerset House deposed that Highwater, who was described in the articles of association as a manufacturing chemist, in May 1910 held 2,000 shares in the company. At that time Florence Flowers, the only other shareholder, held ten shares. Detective-Inspector Carlin stated that in 1910 the names of Dr. Harlan, Dr. Percival, and Dr. Tyrrell were advertised, and Highwater told him that they were doctors residing in America, and that he wrote to them for advice when necessary, and obtained articles from them. From

twenty to thirty complaints had been received about the treatment during the past twelve months. The hearing was adjourned.

[The registration of the company was notified in the *C. & D.*, March 19, 1910, p. 41. Capital, 3,000*l.* Objects: To acquire and carry on the business of J. Highwater, Exchange Buildings, Southwark, patent-medicine manufacturer, etc. J. Highwater is permanent managing director, with 150*l.* per annum.]

Doctors' Dispensaries are Shops.

At last week's meeting of the Bideford Town Council it was reported that counsel's opinion had been taken on the question of doctors' dispensaries and dispensers under the Shops Act, the inspector having reported that the dispensers were not having a weekly half-holiday. Counsel advises that a doctor's dispensary where medicines are made up and sold to patients, whether on credit or otherwise, is a shop within the meaning of the Act and subject to its provisions in all respects, the dispensers and assistants mainly employed in the dispensing and making-up of prescriptions or otherwise in connection with the serving of customers being shop-assistants within the meaning of the Act. The Council has therefore asked the doctors of the town to comply with the terms of the Act by putting up the necessary notices and giving their dispensers and assistants a half-holiday, but all have refused to do so. As one doctor told the Council that the British Medical Association had received the Home Secretary's assurance that doctors are outside the Act, the Council wrote to the Home Office, which replied that the Home Secretary is not aware of any answer being given to the British Medical Association of the character referred to. The Secretary of State is of opinion that the dispensing and sale of medicines is retail trade within the meaning of the Act, whether carried on by a doctor, chemist, or druggist, and that where assistants are employed wholly or mainly in connection with such business it would be necessary to allow them the half-holiday once a week and times for meals in accordance with Section 1 of the Act, and to post up the necessary notices. A committee of the Council is now considering what should be done to enforce the Act as regards doctors.

International Dental Congress.

The VIth International Dental Congress is to be held at the University of London and the Imperial College of Science and Technology, South Kensington, London, S.W., from August 3 to 8. The preliminary programme has now been issued, and gives particulars of the papers already offered to the Congress. The work is divided into ten sections, and beside the papers there are reports to each on subjects which were before the previous Congress. The formal opening is to be in the Central Hall, Westminster, on August 4, at 10 A.M. A social programme has been arranged, which includes a banquet at the Anglo-American Exhibition, and receptions by the Lord Mayor of London, the President of the Royal College of Surgeons, and the British Dental Association. The Hon. General Secretaries are Mr. Norman G. Bennett and Mr. H. R. F. Brooks, 19 Hanover Square, London, W., from whom forms of application for membership can be obtained. The subscription is 30*s.* for each member, and 15*s.* for each person of a member's family.

Contracts.

The following contracts have been settled:

Merthyr Tydfil Guardians.—Mr. R. R. Davis, chemist, for drugs at 45 per cent. discount off list prices.

Slough Urban Council.—Mr. H. E. Walden, pharmacist, appointed chemist for the ensuing year.

Government Contracts.—*Admiralty*: Wilkins, Campbell & Co., for beeswax; Evans Sons Lescher & Webb, Ltd., for lime-juice; F. F. Fox & Co., for linseed oil; Younghusband, Barnes & Co., for rape-seed oil; J. Travers & Sons, Ltd., for pepper; A. Berliner & Co., Cuxson, Gerrard & Co., Ltd., Oldbury, G. Haynes & Co., Stockport, B. Lees & Co., Ltd., Manchester, Robinson & Sons, Ltd., Chesterfield, T. J. Smith & Nephew, Ltd., Hull, W. G. Taylor, Saltley, and Vernon & Co., Ltd., Preston, for surgical dressings. *War Office*: Jeyes' Sanitary Compounds Co., Ltd., for liq. cresoli saponatus (term contract); Houghtons, Ltd., for photographic stores (term contract). *Crown Agents for the Colonies*: Curling, Wyman & Co., for drugs and chemicals; Sir W. A. Rose & Co., for linseed oil. *India Office*: Bowdler & Bickerdike, Church, for carbolic acid; Burgoyne, Burbidges & Co., for sulphuric acid; Parke, Davis & Co., for adeps lanæ; Livett, Frank & Son and Fenner & Adler, for ammonia (running contracts); May & Baker, Ltd., for bismuth carbonate; W. Ransom & Son, Hitchin, for chemicals; Duncan, Flockhart & Co., for chloroform; T. Morson & Sons, for ferri et ammonii citras; Whiffen & Sons, for iodoform; Howards & Sons, for iodine and potassium iodide; Robinson & Sons, Ltd., Chesterfield, for lint; Stafford Allen & Sons, for sandalwood oil; Price's Co., Battersea, for turpentine.

Poison-licences.

W. J. Brown & Co., ironmongers, of 185 and 186 High Street, Guildford, have applied to the Town Council for a poison-licence.

Mr. J. M. Stewart, seedsman, 35 Market Square, Aylesbury, has applied to the Buckinghamshire County Council for a poison-licence.

Poison-licences have been granted by the Buckinghamshire County Council to B. Woodbridge, of Gerrards Cross, and Clarke & Cook, of Wolverton.

An assistant's licence has been issued by the London County Council to W. Mallett, in the employ of Hebbles, Ltd., 17 Broad Street Place, London, E.C.

The Luton Town Council is recommended by one of its committees to grant the applications for assistants' poison-licences from M. A. H. Kidman and P. G. Pester (in the employ of J. F. Tooley), W. J. R. Eads, F. Eads, H. W. Eads, Dorothy Eads, and Gertrude Eads (of W. J. R. Eads, Ltd.), W. S. Horton and A. Horton (of J. Horton & Co.).

Sale of Food and Drugs Acts.

The last quarterly report of the Islington analyst (Dr. F. L. Teed) shows that fifteen drug-samples came under review. Of these, four (one of tincture of iodine and three of ammoniated tincture of quinine) were reported against, but the percentage of adulteration was "too small" to take proceedings.

The Birmingham city analyst (Mr. J. F. Liverseege, F.I.C., Ph.C.) reports that eighty-seven drug-samples were submitted for analysis last quarter, of which twenty-seven were adulterated. Proceedings in twelve cases resulted in six vendors being fined 7*l.* 15*s.* altogether. Of twenty samples of oil of almonds taken, in eight cases a cheaper substitute had been used. One was marked "Oil of Almonds, foreign," and another, purchased subsequently from the same drug-store, was labelled "Oil of Almonds, not the genuine." The latter being a declaration to the purchaser, the vendor was only cautioned with regard to the labelling of the first sample. Three substitutes bought at another drug-store were not even pure peach-kernel oil, but a mixture of the latter with a cheaper oil, probably poppyseed oil. Of fifteen samples of camphorated oil, ten were genuine, one was prepared with mineral oil, while two others contained only 6 per cent. and 5 per cent. of camphor respectively, and had been prepared with adulterated olive oil. Fourteen samples of Gregory's powder had not been properly prepared. Four, purchased from three different vendors, contained an excess of moisture and carbon dioxide, probably owing to the articles being old or not having been properly kept. In one case carbonate of magnesia had been used instead of magnesia.

Sheffield Notes.

The inquest on a married woman who had suffered from lead-poisoning has recalled to older pharmaceutical workers that joint action was taken by the medical men and the Pharmaceutical Society to induce the Privy Council to schedule lead preparations as poison. Chemists exercise great restraint as regards the sale of lead-plaster, and the police are finding great difficulty in tracing the sales, which are mostly by small unqualified traders, to women, who retail it again in pill-form.

At the annual meeting of the members of the Sheffield Branch of the National Association of Medical Herbalists, held at the King's Head Hotel, the Secretary (Mr. Herbert R. G. Skelton), in his report, said the Branch had had a very successful year, enthusiasm had been high, membership had increased, and the finances were good. The following officers were elected: *President*, Mr. Thomas Tildesley; *Vice-President*, Mr. J. Lee; *Secretary*, Mr. H. R. G. Skelton; *Treasurer*, Mr. A. Russell Fox.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Mr. R. Blair, Ph.C., Patrick Street, Cork, has been elected a member of the Committee of the Naturalists' Field Club of that city.

The partnership between Joseph Suche and James Joseph Fitzgibbon, pharmaceutical chemists, Kingstown, has been dissolved as from January 19.

Mr. Edward A. Whelan, Ph.C., Abbeyview, Rathkeale, has been appointed a director of the Electric Lighting Power Co., Ltd., recently formed in that town.

Mr. Wilfred Wells, son of Mr. W. F. Wells, Ph.C., Upper Baggot Street, Dublin, has been awarded a bronze medal and third place out of twenty-one candidates for the baritone solo at the Feis Ceoil, the annual musical festival of Ireland.

"Requires no comment" is what a correspondent adds to a handbill he sends us which is being circulated in Dublin calling a meeting of "licensed grocers or vintners, tobacconists and chemists' assistants, etc.," with the object of forming sub-committees of a union for bettering the condition of shop-assistants.

The annual football fixture between the employés of Grattan & Co., chemists and aërated-water manufacturers, and Dunville & Co., distillers, was played at Grosvenor Park, Belfast, on May 14, Dunville's winning by four goals to two. After the match an entertainment was held in the pavilion under the chairmanship of Mr. Brown, of Grattan's.

At Belfast County Court last week an action was brought by John West, a shopkeeper, against Thomas Brady, manufacturing chemist (Grosvenor Chemical Co.), to recover 20*l.* for assault and injury to goods and glass on March 17. Plaintiff said that defendant came to his shop with an account for 5*s.* 4*d.*, but as plaintiff had not ordered the goods he refused to pay. Defendant then assaulted him. Judge Craig, after hearing the evidence, made a decree for 2*l.* 1*s.*, and costs.

Mr. Thomas Keawell, Ph.C., Harold's Cross, who acts as temporary compounder to the No. 2 dispensary division of the South Dublin Union, has applied to the Guardians for an increase of salary from 30*l.* He bases his claim on the fact that during ten months he has dispensed 7,509 prescriptions; that he is allowed no holidays, and has to provide a substitute at his own expense when absent. A motion to increase the salary to 40*l.* a year has been put on the agenda for next month's meeting.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

Congress of Physiotherapy.—The fifth Congress of Physiotherapy opened last week at the Paris Faculty of Medicine. Among those present was Dr. Howard Humphries (London).

Vichy Water.—Professor Moureu presented to the last meeting of the Academy of Science a paper by Dr. J. Bardet, who has extracted germanium oxide from Vichy water. It exists in minute quantity.

Political Pharmacists.—As a result of the recent General Election in France, the new Chamber of Deputies includes eleven pharmacists, three veterinary surgeons, and fifty-three medical practitioners.

Hospital Pharmacists.—The 1914 annual banquet of the Confraternal Association of Paris Hospital House Pharmacists and ex-"internes" took place at Marguery's Restaurant on May 15, and was followed by the annual general meeting. Association problems were threshed out in what a French Minister of State so aptly termed the "communicative warmth of a banquet." As the Internat of Hospital Pharmacies was founded in 1815, the question of fittingly celebrating its centenary was discussed.

Anti-typhoid Serum.—A somewhat serious misunderstanding has occurred among the nurses (male and female) of the Paris hospitals regarding vaccination against typhoid fever. The governing body of the hospitals issued an order that the whole of the various staffs should be vaccinated, and the latter are protesting against the order after a number of them have been inoculated. The reason given by the representatives of the staffs is that the results are not wholly satisfactory, and, in fact, in some cases the contrary. Evidently the difference at present existing between the governing body and the staff will eventually be arranged. But I gather that it has arisen through several of the persons vaccinated not being perhaps in sufficiently good health at the time, and then it was not voluntary.

The Pulsoconn Cure.—The American who under the name of Dr. Macaura conducted for some time a so-called institute in the Boulevard Haussmann, Paris, for the treatment of rheumatism and other maladies by means of vibratory treatment with an apparatus called "Pulsoconn," has been prosecuted for illegal practice of medicine and for swindling. Eleven other defendants, almost all doctors of medicine, were prosecuted at the same time as assistants in the sale of the Pulsoconn apparatus. The trial lasted for twenty-nine hearings, and at times was exceptionally animated, Macaura's counsel having taken the line of attacking the medical profession properly so-called. The principal defendant was sentenced to three years' imprisonment, and 3,000f. (120*l.*) fine, on the charge of swindling, and acquitted on the other charge of illegal practice. The other defendants received much less severe sentences, and one was acquitted. The prosecution was undertaken by five medical syndicates of Paris and the provinces, who received damages of from 40*l.* to 160*l.* While it lasted the Macaura advertising in the French Press was remarkable. He also distributed pamphlets in large quantities, while the experimental *séances* at his "Institute" in Paris were largely attended, and even besieged by patients at times. Macaura had hospital nurses in uniform in attendance, and in other ways made the *séances* attractive.

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

Poisonings in Bengal.—The Chemical Analyser to Government for Bengal in his annual report for 1913, states that in connection with human poisoning the viscera of 824 individuals were examined as compared with 773 in the previous year. The proportion of detection of poison to total examinations was, however, less, being 36.77 per cent., against 40.49 per cent. in the previous year. As usual, the most common poison detected was opium. Among the poisons commented on are croton oil, cocaine, datura, arsenic, etc.

Personal.—Mr. Alfred Pell, J.P., F.C.S., general manager of Messrs. Kemp & Co., Ltd., Elphinstone Circle, Bombay, is retiring from that position after a service of almost thirty-two years. Mr. Pell intends to commence a new business in the Mysore territory. Mr. James Fraser (who has been with the company over a quarter of a century) now assumes the position vacated by Mr. Pell, who left Bombay on May 1 for England by the overland route. Before leaving the staff presented Mr. Pell with a handsomely fitted dressing-case, while Mrs. Pell received a gold and turquoise bracelet. Other presents were given by the Bombay Drug Bazaar merchants, who also presented an address in feeling terms.—Mr. Jamnadas J. Mehta, of Messrs. Jamnadas Bros., Market, Bombay, is undertaking a business trip to England. Mr. Mehta has had seventeen years' experience of the Indian drug business, eight of which were spent with Messrs. Vasanji Nathoo & Co.

The German Reichstag has appropriated 500,000 m. (25,000*l.*) as a subsidy to the Kali Syndicate to exploit the potash industry. This news comes *via* the San Francisco correspondent of "The Times."

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Cape Province.

A General Meeting of the Pharmaceutical Society of the Cape Province was held at the rooms, 65 Hout Street Cape Town, on April 16. Those present included the President (Mr. G. R. Cleghorn), Vice-Presidents (Messrs. J. Sowden and J. Dell), and Messrs. Aitken, Merry, Ferguson, Edmeades, Weller, Jardine, Ware, Mann, and the Hon. Secretary (Mr. J. Sloan). It was resolved to leave the arrangements for the annual dinner in the hands of the Council. The business of the meeting was carried through with as little delay as possible, members having attended chiefly to listen to a lecture from Mr. H. Ferguson, of Messrs. Petersen, Ltd., on "Some Developments of Modern Pharmacy," which chiefly dealt with tablets, and the manner in which Mr. Ferguson handled his subject showed that he had devoted considerable time and trouble to the matter. This is the second of Mr. Ferguson's lectures, and it is to be regretted that more members were not present to listen to an intellectual treat. The thanks of the Society are due to Mr. Ferguson for his endeavour to make the Society's meetings more popular.

Natal.

Acetone.—Giving evidence before the Dominions Royal Commission recently sitting at Cape Town, Mr. C. D. Keith Fraser, an extensive wattle-grower, stated that a large industry could be established in South Africa if the British War Office could be induced to use acetone manufactured from Natal wattle-wood in place of that produced from Bosnian beech. The latter gives acetone of a 78-per-cent. standard of purity, whereas the purity standard of acetone from Natal wattle-wood is 80 per cent., and the product can be supplied at the same price as the lower-grade article.

Our American Letter.

(Special Correspondence to the "C. & D.")

Travelling Fellowship.—In connection with the New York College of Pharmacy, Mr. Albert Plaut has founded a foreign fellowship in pharmacy, to be awarded annually to the student in the New York College of Pharmacy who takes his B.Sc. in pharmacy, and who is, in the opinion of the Faculty, best fitted to make use of an opportunity of continuing his studies at a university in Continental Europe. The fellowship will provide an annual income sufficient to pay for a passage to and from Europe, and all necessary expenses for a year's residence at such foreign university as he may elect. The fellowship is to be known as the "Isaac Plaut Fellowship in Pharmacy," in memory of Mr. Plaut's father, who was many years ago in the drug-business in New York City, and subsequently connected for years with the house of Lehn & Fink.

The Shape of Tablets.—A Bill has been introduced in the United States House of Representatives, states the "British Medical Journal" (I., 1914, p. 944), making it unlawful to manufacture, dispense, sell, or distribute in the district of Columbia or in inter-State commerce any tablet containing mercury perchloride in larger amount than $\frac{1}{8}$ grain in each tablet, or any other poisonous tablet intended for external use, unless such tablet is made in the form or shape of a coffin, each bearing the word "poison" and a skull and crossbones design, and the bottle or other container bearing a red label stating the composition of the tablet and the word "poison" and a skull and crossbones design. Application has been made for a patent on this particular design, and this patent will be assigned, if granted, to the American Pharmaceutical Association, which in turn will permit the privilege of using it to any manufacturer. The application was made with a view of preventing any one manufacturer from obtaining a monopoly of the design. The Bill further prohibits the introduction from abroad or from one State into another of poisonous tablets for external use, save under similar restrictions.

C.D.A. and P.A.T.A.

The directors of the Chemists' Defence Association, Ltd., have issued the thirteenth annual report to be submitted to the meeting of the members in July. This shows that on April 15 the number of members was 4,407, 238 having been elected since July 1913. After mentioning the subjects in which legal advice was given during the year, the report states that the claims for damages were less numerous in 1913, all being under 100*l*. Among the examples of cases mentioned are:

Broken glass in a powder.
Wrong label on bottle of medicine for a child.
Aperient pills supplied too strong.
Bromidia instead of black draught.
Laudanum instead of tincture of rhubarb.
Strong solution of ammonia instead of ammoniated tincture of quinine.
Burnt lip caused by depilatory.
Camphorated oil instead of olive oil.

In addition, a considerable number of claims of an unjust character were resisted, and the claims were withdrawn.

Assistance was also given to members in coroners' inquests, and in Sale of Food and Drugs Acts cases; analyses and the Patent-medicine Committee's inquiry are also mentioned in the report. The accounts show the income for the year to have been 2,418*l*. 1*s*. 7*d*.—viz.: Subscriptions, 2,182*l*. 19*s*.; commission received from insurance companies, 53*l*. 7*s*. 4*d*.; dividends on investments, 169*l*. 13*s*. 5*d*.; and interest on deposit, 12*l*. 1*s*. 10*d*. The expenditure was 1,457*l*. 9*s*. 2*d*., thus showing 951*l*. 12*s*. 5*d*. balance to the good. The investments amount to 5,829*l*., and the directors propose to increase the reserve fund from 5,000*l*. to 10,000*l*.

The report of the parent body, the Proprietary Articles Trade Association, has also been issued. It is a longer document, and the eighteenth since its formation. The membership consists of 359 firms in the manufacturers' section (thirty-three joined during the year), twenty-seven in the wholesale section (Messrs. Ayrton, Saunders & Co., Ltd., Duncan, Flockhart & Co., and MacMullan & Co. are the latest), and 4,566 in the retail section (the Council hope that the 5,000 mark will soon be passed). The "Stop-List" continues to decline in size, and this is a very satisfactory state of affairs. Apart from the Industrial Co-operative Societies, hardly a firm of any importance appears thereon, and the bulk of the names are those of hairdressers, stationers, small commission agents, and oil merchants, who sell but few of the articles on the P.A.T.A. List. It is significant that many of the Co-operative Societies have now signed the agreement to conform to P.A.T.A. requirements, and the Council are sanguine that it is only a matter of time when the remainder will find it to be to their own interest to work in harmony with the Association. The complaints of cutting, either wilful or unintentional, received during the year were quite up to the average, and as the Association controls the prices of more than 3,000 separate articles, it is gratifying that the underselling reported should be, by comparison, insignificant. This branch of work cost 222*l*. during the year. Reference is made to the Council's resolutions regarding window-shows, and that all P.A.T.A. articles sold to National Insurance Committees must be treated as ordinary retail transactions, and the minimum retail prices charged. The vacancies in the Council, due to the deaths of Mr. W. R. Barnes and Mr. J. W. Sutherland, have been filled by Mr. C. B. Allen (Kilburn) and Mr. J. P. Gilmour (Glasgow). Owing to the work increasing, it has been decided to increase the Council to thirty-six members, twelve to represent each section. The additional members will be co-opted at the July meeting of Council. The income during the year was 3,199*l*., of which 3,000*l*. came from subscriptions, and the expenditure was 2,164*l*., the largest items being 904*l*. for salaries and 370*l*. for the "Anti-cutting Record," which receives 625*l*. from the two Associations. The investments yielded 168*l*. of dividend last year, but what they are is not stated in the accounts or report. On deposit there is 800*l*., besides 1,273*l*. cash in hand and at the bank.

The Third International Opium Conference will meet at The Hague on June 15.

The Alcohol Motor Fuel Committee of the Imperial Motor Transport Council, in a preliminary report issued this week, call attention to the importance of rendering the British Empire independent of fuel supplies from foreign countries, and point out that crops from which alcohol could be obtained might be cultivated in many parts of the Empire. Sir Boverton Redwood, Bart., and Mr. T. Tyrer are the principal chemists on the Committee.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.

SEVENTY-THIRD ANNUAL MEETING.

THE Charter of Incorporation fixes the approximate date for the annual meeting of the Pharmaceutical Society, and custom has ordained that noon shall be the time of day at which it is held. This year the anniversary took place on May 20, the meeting being held in the lecture-theatre of 17 Bloomsbury Square, London, W.C. Punctually at mid-day the President (Mr. E. White) entered the room, accompanied by the Vice-President (Mr. A. S. Campkin), the Treasurer (Mr. W. H. Gibson), and the following other members of Council: Messrs. C. B. Allen, F. E. Bilson, W. G. Cross, J. H. Cuff, W. L. Currie, R. L. Gifford, J. F. Harrington, J. Harrison, E. T. Neathercoat, L. M. Parry, F. A. Rogers, P. F. Rowsell, F. P. Sargeant, and T. A. White. The President was also supported by the Solicitor (Mr. W. H. Quarrell), the Secretary (Mr. W. J. U. Woolcock), the Assistant Secretary (Mr. A. J. Chater), and the Deputy Registrar (Mr. Harry Moon). There were under a hundred members present, these including Miss M. Buchanan and Messrs. A. E. Bailey, T. O. Barlow (Southsea), J. Teague Barrett, C. W. Brumwell, H. Deane, J. Wellesley Douglas, J. Y. Fairweather, E. H. Farr, — Faulkner, H. Finnemore, J. P. Gilmour, F. Goldby, W. F. Gulliver, A. Higgs, J.P., E. A. Holloway (Southend), W. L. Howie, G. J. Knight, T. Edward Lescher, Donald Mackenzie, James MacKenzie (Edinburgh), J. D. Marshall, N. H. Martin (Newcastle-on-Tyne), A. R. Melhuish, J. Milner, J. C. Pentney, W. Pickard, H. H. Pollard (Ryde), J. H. Robinson (Liverpool), C. Rundle, H. Skinner, T. Tickle, W. M. Tims, G. A. Tocher, E. Whineray, and R. F. Young.

MR. EDMUND WHITE, B.Sc., PH.C.

The ballot-box was on the table, as members have the right by Act of Parliament to vote "not later than twelve o'clock noon on the day on which the election takes place." Several members availed themselves of this privilege. The various registers which have to be kept by the Registrar were also on view, this being in accordance with the by-laws and being one way which the registered persons and members have of seeing that the Registrar is keeping these records properly. The registers were packed in the fume-cupboard behind the President's table, but nobody ventured to raise the window to check any of the entries.

The PRESIDENT opened the proceedings by calling upon the Secretary to read the notice convening the meeting.

The SECRETARY read the notice as requested.

The President's Address.

The PRESIDENT then addressed the meeting, receiving on rising a most cordial welcome. He said: Gentlemen, this is the seventy-third annual meeting of the Society, and it is my duty to present to you the annual report and the financial statement. And, first of all, I should like, on behalf of the Council as well as on my own, to welcome very heartily those representatives of Associations connected with pharmacy who have come here to-day from various parts of the country, in many instances at some inconvenience to themselves. I can assure them that we very much appreciate their presence here. (Applause.) Now, it is usual at this meting to take the annual report and the statement of accounts as read, and I take it that that meets with your approval to-day. (Hear, hear.) You have all seen it; it has been published, and therefore it is not necessary to read it *in extenso* to-day. I am going to exercise the privilege which the President has hitherto had of addressing a few remarks on the subject of the report, and also upon a few other things which may not be directly mentioned or dealt with in it. Now, let me deal in the first place with

THE MEMBERSHIP.

I think we may say with regard to membership and also with regard to the general activity in the Society, that we have never been in a more healthy condition than we are in to-day. (Hear, hear.) Of course, it is very easy by means of figures to prove anything, and I suppose it might be quite possible for people to come here to-day and show, by a reference to figures, that the Society has numerically decreased. Of course, that would not be true, but it is quite possible to show it. It is very difficult sometimes to make comparisons over certain periods because of secessions and additions to the Register, but to-day I should like to mention to you one or two figures which give you a very good idea, in the rough, of what the increase of membership means this year. Last year we issued 7,300 voting-papers, and this year we have issued 7,700. (Hear, hear.) In other words, and broadly speaking, we have at this period of the year 400 more names on our list than we had last year. Now, that, of course, is a very gratifying increase, and, all things considered, I think we must be satisfied with it for the time being. One, of course, feels that with the names of 16,000 chemists on the Register we ought to have more than 8,000 on the Society's list. While that may be, or may not be, the point to be considered in dealing with these figures is that you must make very large deductions from the 16,000—a reliable figure which represents what you might call the number who ought to be on the Society's Register. These deductions have to be made from a variety of causes. For example, you have those members who have retired from business—some of them because they have made money; some, it may be, unfortunately, because they have lost money. In any case, there is room to a large extent for deductions to be made from that total in that respect. And then, of course, there is a large number who have gone abroad for various reasons—I will not specify them—sometimes for good, sometimes for bad. In any case, they have gone, and we have lost them as active members. Then there is a large number who, as assistants or in other capacities, do not identify themselves to any degree with the work of the Society. They may come in later on, when they see the utility of taking a keener interest in it, and, perhaps, take a greater fancy to the work. Well, having made those deductions, and realising that they amount to a considerable number, I think we may say that out of the remainder 8,000 is a very respectable figure—very respectable indeed. ("Hear, hear," and applause.) I am hopeful that in the near future we shall exceed 10,000; in fact, I shall never rest satisfied, I was rash enough to say we should not be satisfied, until 10,000 had been reached. (Applause.) I think we may say that we are getting on. You must remember that our own is very much like any other profession. We have connected with it nervous sort of people who are quite willing—indeed, very pleased—to remain outside. I do not know that anything more I could say would make any difference so far as the membership is concerned, but I think you will agree that there is a figure beyond which we cannot go. But before leaving that point I think I am entitled to say this: It is certain that the Society is in very much closer touch with a greater number of practising pharmacists in all parts of the country than ever before. (Applause.) I think I may state that without fear of contradiction. (Hear, hear.)

The Financial Side.

Now, in dealing with the financial statement, we are dealing again with very rigid figures. First of all, if you look at the General Fund income and expenditure account, you will find that this year we have added 1,638*l.* to our accumulated fund; last year the amount was, I think, 756*l.* Well, of course, that is a matter of congratulation as showing that the business of the Society is solvent and that we are, I hope, exercising the care which we ought to do in disbursing your funds to the advantage of the Society. But there is another side from which this matter can be looked. I should not have minded having had to face you with a deficiency of 1,600*l.* if I had felt that the money had been properly expended. (Hear, hear.) That is the only condition that I attach to the figures, whatever the result—that you should feel that the money has been well spent; for you know that it is sometimes necessary to spend money even in excess of what you have. It is only necessary to exercise care that it is well spent. Now, with regard to the increases in revenue, I find that there has been an increase in the examination-fees of 252*l.* This fact needs no comment. Then there has been an increase in the registration-fees of 279*l.* That figure is rather striking, and is due to the influx of registered students, as a result chiefly of the alterations in the regulations governing the admission of apprentices or students. That I will discuss if you wish it. School-fees, broadly speaking, have increased 293*l.* Then there has been an increase of 255*l.* in the total amount of subscriptions compared with last year. This, of course, has been due to the increased membership. With regard to the life-members' subscriptions, the Council last year adopted a plan for the first time—it is continued this year, and I hope it will be continued in future years—by which it invests an amount approximately equal to that received from life-members' subscriptions in each year. By this plan we avoid including these subscriptions in the income for any particular year. This is a very sound financial principle, because if you imagine all the members of the Society for this year paying up their ten guineas, we should for this year have a very fine time; but when next year came we should have no such subscriptions, and we should find ourselves in difficulties. For some time that precaution has been effective, and I think we are quite wise in following it. I hope you will approve of it. We are putting aside the money received from life-subscriptions, so that we may cover the responsibilities of future years which they entail upon us. Then there is the "British Pharmaceutical Codex" figure, which is 675*l.* This is simply explained. We paid for the printing and paper and composition in previous years, and this year we have had nothing to pay for but for the binding and the advertisements. Therefore, the sales have been almost entirely net profit. There have been, on the expenditure side, increases in the following items: Annuities, 200*l.*; examinations, 85*l.*—due, of course, to the increased activity in the examination department; "Journal," 268*l.*; postages, 100*l.*—accounted for, again, by the greater number of communications the Society has had with local Associations, and also through the larger membership; salaries, 78*l.*; School of Pharmacy, 51*l.*; stationery, 15*l.*; Members of Council; travelling expenses and refreshments, 44*l.* Then the chief decreases in our expenditure are in connection with the North British Branch, due to the absence of charges for repairs which were incurred last year in doing-up the Society's premises. Then rent, taxes, and insurance are 62*l.* down; but we must not congratulate ourselves about this, because that is a thing that is arrived at in this way: the decrease is due to a sum of 100*l.* for six months, which was not paid to the new Secretary, as you know, in lieu of rent. During the same period there has been an increase in the rates, and we have had to pay storage charges for the Society's stock. Then there has been a decrease in the local organisation's expenses. They are 80*l.* down. That, of course, is quite easily explained, because last year that item included salary paid to the Local Associations officer, and it happens this year the item is combined—is transferred and included in the fee of the Secretary, who does not get any special payment as Secretary for the performance of the duties of Association officer. (Applause.) The statement appears to me to be a fair and simple one, and, as far as I can see, it does not need any further comment from me.

The Benevolent Fund.

Glancing now at the Benevolent Fund account, you will notice that we have had to take the small amount of 46*l.* from the accumulated funds to balance our books. Well, I suppose that next year we may be able to put that straight. It seems a good thing, indeed, in connection with a charitable fund to be in debt, although it may look bad on paper. I do not suppose we shall have, as a Council, to suffer for this statement. I think the fund is administered very carefully, and to put the position right you have only to increase your subscriptions, and you will see that the amount goes to the other side.

Abolition of Divisional Secretaries.

Now I will come to the Report itself. The subject of organisation is very fully dealt with in the Report as published. I should, however, like to allude to one part of that statement, because it is very difficult to deal with it in a cold-blooded, official way. As you know, the new scheme of organisation indicated that there is required a certain amount of centralisation in each local Association area. As a result, of course, the Divisional Secretaries disappeared as such. I am sure that if any alteration or adaptation of the present scheme could be evolved which would retain or renew the services of these gentlemen, the Council would be very pleased to give it full consideration. (Hear, hear.) I have, I believe, indications that the divisional officers felt no resentment or dissatisfaction by their removal or displacement. That is the last thing in the world I should like. (Hear, hear.) I am sure the Council will bear me out in saying that that is the last thing the Council would wish those gentlemen to feel with regard to the Society. Suggestions have already been made that in those areas which are large areas, where the district may be divided into distinctive parts, the representation in each of them should act under the direction of the Secretaries of the local Associations who are direct representatives of the Society. That seems to be a suggestion which might result in great usefulness, and I think the best plan would be to refer the whole matter for discussion to the Local Associations' Executive this year. Let them discuss the matter fully, and come to some scheme by which we shall be able to combine the benefits of one scheme with those of some others. I only want to say that the Council is very sympathetic in this matter, and would be very grieved indeed to feel that the Local Secretaries, many of whom have served for many years and with benefit to all concerned, should feel that they have been slighted in any way. Now with regard to the Executive Committee of the Local Associations which has been set up. As you know, that body has taken up the functions of the Local Associations Committee and the Pharmaceutical Standing Committee on Insurance. I cannot help expressing my admiration of the attitude taken up by those two committees—may I now call them defunct committees? I think they behaved very well indeed, and I am delighted with the way in which they consented to this self-effacement. They came out of the limelight very willingly because they felt that what they were doing was for their good. As the Local Associations Committee dissolved or was not reappointed, the Standing Committee also agreed to relegate their duties to the new committee.

Well, now, this Executive Committee of the Conference has met on various occasions, and has done, up to the present time, a great deal of useful work. I believe that the frank and full acceptance by your Council of the resolutions and recommendations of the Local Associations Conference has done an immense amount of good. It has brought us into very close contact with members of the Society throughout the country, and it has shown that we have here only the desire to work in the closest co-operation with every one connected with pharmacy. I believe also that the idea that the influence inherent at the Square is to oppose reform tends to disappear, if it has not altogether gone. (Applause.) I should like to say, in passing, that the full and complete knowledge of the

responsibility of office must ever tend to modify the views of the enthusiast and idealists. One cannot help that. Every one comes to a position on the Council with ideals, but they have to realise eventually that there are limitations to what they would like to do.

Parliamentary Representation.

I would like next to refer briefly to the Parliamentary Fund. I am sure every one will agree with me as to the immense advantage which accrues from the direct representation of pharmacists in Parliament. (Applause.) In this connection I hope that before long we shall be able to announce that we have a very satisfactory amount in hand. (Applause.) I do not propose in the meantime to tell you how many thousands or hundreds we have—it is a little bit premature. At the same time I hope we shall have a satisfactory amount eventually, and, as you will notice, the Council has taken the greatest care to see that this fund will be administered in a very broad spirit and without any political bias. (Hear, hear, and applause.) The only advice I can give to-day is that those who have this matter at heart should subscribe not only liberally but at once, so that the committee may have the amount available whenever the emergency may arise which will necessitate its use. I would rather much have money to spend than many promises.

Deficiency Areas.

Perhaps to-day you will feel that I have not done my duty unless I make some reference to the deficiency areas in connection with the National Insurance Act. I refer to those places where the Drug Fund is not sufficient to meet the chemists' bills. At the Council-meeting in April last I entered pretty fully into the facts of the position, and referred very briefly to what the attitude of the Council was on the matter. The Council and committee approved of the statement I made, and it was published *in extenso* in the journals. But what we particularly felt was the necessity of ascertaining the cause or causes of the insufficiency of money in connection with the Drug Funds of various districts before dealing with any proposition for removing it which the Society might seek to do on behalf of its members. That, I think, is the correct thing to do. Before you attempt to apply a remedy you must understand what the disease is—you must know where the wrong is before you clamour for redress. The Council therefore thought it was only the right thing to do to find out, if possible, whether there is any complaint before applying the remedy. The Insurance Act provides certain machinery for meeting exactly the conditions which have occurred. The provisions cover excessive sickness in any area where it may occur, and there is another regulation which allows, on certain conditions, surcharges on the doctor who may be found to be prescribing expensively or carelessly. It seems that any shortage which may arise must arise from one of these two causes. If it is proved in any given area that there has been extravagance on the part of the prescribers, then I think the chemists have a very strong case to go with to the authorities, and maintain that this must have been due to excessive sickness in the area. The advice of the Council a month ago was that the chemists should not take any hasty action. That advice has been generally accepted, with the result that the Council is enabled to work without being embarrassed by isolated, spasmodic action in local centres. Thus you have the benefit of the action taken through the Secretary, who is able to collect material concerning the Act in every overspent area without exception. (Applause.) The action taken was based upon the report of the Executive Committee of the Local Associations Conference as well as of the Council. Certain recommendations have been adopted which I may briefly sum up as follows Every deficiency area should see that the regulations governing an inquiry into the accounts are put into force forthwith. They should see to this and not expect other people to do so for them. Let them, in short, look after their own business. That is merely for your guidance. I also wish to emphasise the importance of this, and I may say that I am quite sure the Insurance Commissioners will be prepared to consider this course of procedure in the interests of the smooth working of the Act. What is more, it will enable you to see that the Act is going to work in a solvent manner in future. There must be some limit on expenditure unless the Government is prepared to give a blank cheque. Each Pharmaceutical Committee in these deficiency areas, if it needs advice, should communicate with headquarters, and it will receive information which it is hoped will tend towards a satisfactory settlement of all difficulties. Members will find it of advantage to keep in close touch with Insurance Committees and Panel Committees by means of such a meeting as the Society convened at Preston as a centre for the purpose of discussing matters and coping with the position of Lancashire. They will no doubt commend the effort of the Secretary in carrying into effect, so far as was possible, the policy of the Council.

Protecting the Interests of Members.

Now, I daresay you will hear to-day many gentlemen from such areas. I hope and believe—at least I know and feel convinced in my own mind—that the Society has done ostensibly and carefully everything that can be done at the present time to protect the interests of the members, and if we knew that we could do much more at this time we should do it. I believe that we shall hear to-day from gentlemen from various parts that they are convinced and satisfied with the Society's action; that its officers have approached this matter very carefully and have done everything that could be done to safeguard their interests. (Applause.) Now, one of the suggestions under consideration at the present time is the setting up of a central authority for the Lancashire Insurance areas. Another one is that seeing women appear to need more physic than the men, that the amount credited for each woman should be calculated on a basis of 2*s.* 6*d.*, and that the amount for each man should be 1*s.* 10*d.*, in each area. That is to say, that where the women exceed the men very largely in number, you will have a larger per cent. per head than in the ordinary case where the men exceed the women in number. I do not know why women should cost more for medicine than men, and I do not know if this meeting is competent to discuss it; but you have to take the broad fact that wherever there is a large body of women workers, they cost more for physic than do the men. Well, I think much has been said and done to prove that we are alive to the dangers and difficulties of the case, and that we are doing and have done for pharmacists what they could not do for themselves individually.

A Member: The reason of a woman costing more than a man is quite easily explained.

The President: You will have an opportunity presently. If the chemists of the country continue to show the confidence in the Society which they do now, I do not think there will be any need to discount their bills or delay in payment. The Insurance Act is a colossal measure, and the detail work which it involves and throws upon the Insurance Committees is enormous. Delays have occurred in the payment of accounts, but the Society is not responsible. I think you will admit those responsible for the work have done very well to get through with it as quickly as they have done. I am told now that the work of adjustment is nearly completed, and that within a short time it will be possible for each Pharmaceutical Committee to know the exact position in which they stand—that is to say, they will know very shortly what the exact deficiency is of any particular area. And I think it will be found that on final adjustment matters will not be so bad as it was feared at one time they would be. It is difficult to say more than that. When the adjustment comes the redress sought will not be anything so severe as we anticipated. And when the remedies are properly applied you will find that you are not to have any deficiency at all. (Applause.) I think you are entitled to take up that attitude and that is the one I am to take up. (Hear, hear.) Of course, I do not know that we may discuss

The Question of Excessive Prescribing.

One of the painful possibilities of this is to encourage malingering. There is also a lot of prescribing for trivial ailments from what one knows, and if that is going to

be the case the Drug Fund will be found to be overspent. The same machinery should be used to check if possible the enormous and unnecessary prescribing that goes on. If you look at the matter from the narrow point of view your interests are benefited by this. But that is a very narrow point of view. The position from a national point of view is so serious that you are patriotic enough to believe and to say that you would rather people did not take too much physic for the national good. (Applause.) It is not the amount of money that the physic costs, it is whether we think the physic taken is excessive. That is the important point from the national point of view.

The New B.P.

The last point to which I would refer is the B.P. This has been referred to on various occasions, but to-day, perhaps, it would be better for me to comment on what has taken place. You will have noticed that in the Press a reference has been made to a communication from the Pharmaceutical Council of Western Australia, who sent a letter to their representatives in London with regard to the conditions under which the B.P. has been hitherto published. Now, the Council has indicated the opinion expressed by their Australian *confrères* and letters have appeared in the Australian Pharmaceutical Press. The Agent-General of Western Australia communicated the representation, and our reply to the Agent-General was as follows:

[Here the President quoted his letter to the Western Australia Pharmaceutical Council which appeared in the *C. & D.* of May 9, p. 39.]

Other Matters.

Another small matter I should like to refer to—and yet I do not know if it is a small matter—with regard to the management of your officers. I can say to-day that the year has closed in their having succeeded in letting the premises at 72 Great Russell Street on advantageous terms, and next year we shall be receiving revenue of a considerable amount. We have been compelled to adjust our internal arrangements, and, as a consequence, next year we will get a considerable amount of rent.

Then I should like to refer to the meeting of the British Pharmaceutical Conference last year. Your Society was able on that occasion to give facilities of a very satisfactory character, and a very successful meeting was held, as you know.

Another point I might refer to in closing is that of reciprocity. We have now succeeded in arranging terms with Victoria, with New South Wales, and with Queensland; and I think I am right in saying that the first registration of an Australian pharmacist in England has recently taken place under this reciprocity. (Applause.)

Now, gentlemen, after these remarks it is my duty to formally move that the annual report and statement of accounts as published be received and adopted. I will ask the Vice-President to formally second this, and then the meeting will be open for discussion. (Applause.)

The Vice-President (Mr. Campkin) said: It is my duty, as it is my privilege, to second the adoption of the report which has been submitted to you by the President. We are indebted to him for the very exhaustive, practical, interesting, and eloquent *résumé* he has given of the proceedings of the Council and the Society for the past year. (Applause.)

Discussion.

Mr. James MacKenzie (Edinburgh) opened the discussion. At the outset he said the Society had reason to congratulate itself on the extraordinary addition to the membership, notwithstanding all the difficult circumstances which had surrounded the chemists and druggists of Great Britain during the past year, in spite of competition of stores, the existence of panels, and all the rest of it. Coming from Scotland as he did he was glad to notice that they had altered the title of the Secretary of the Northern Branch from that of Assistant Secretary to that of Resident Secretary in Scotland. Although it is a reform too long delayed, he was pleased to find that the Council had reduced the number of subjects for the examination of young men entering pharmacy. Proceeding, Mr. MacKenzie gave expression to the hope that the Council would not be negligent in strenuously endeavouring to induce the Government to put at least two well-known pharmacists upon the Medical Council Committee for compiling the Pharmacopœia in future. Mr. MacKenzie enlarged upon this. With regard to panels, he had nothing to say. (Laughter.) He had a contempt for the whole business, and had published proclamations regarding it to all whom it might concern. He was content to tell his customers, "You need not fear to get cheap drugs here." The Society had recently had changes in its staff, and he hoped these would be for the better; but there is one thing he had watched while the President was speaking. The President had touched efficiently upon various points but had discreetly danced round one subject to which notice should be directed. It had reference to the old Secretary, and amounted to a protest against the annuity paid to him by the Society. Concluding, Mr. MacKenzie remarked that there are many members who, like himself, were not able to pay down ten guineas for life membership, but who had during their lives paid more than twice that amount. Personally he had paid his guinea for the past forty-five years, and the Society continued to exact the annual guinea from him. If the Council had exercised the questionable authority to which he had referred surely they ought to free from annual payment of his membership subscription one who had paid it, say, for twenty years. (Hear, hear.)

Mr. J. C. Pentney said his feeling at the moment was that he was one of the unemployed. His profession as chief grumbler to the Society seemed to have completely gone, his mantle having meantime fallen on the shoulders of his Scotch friend. (Laughter.) His friend evidently did not agree with old-age pensions, and seemed to be rather close. Well, no Scotsman could help that. (Laughter.) There was a great deal of satisfaction to them, the grumblers, to find that the Pharmaceutical Society had taken in hand what they very much pressed upon them for some years—viz., to take a sympathetic view of the practical side of pharmacy, and consider the bread and butter of chemists. (Applause.) "Sir," said Mr. Pentney, addressing the chair, "I think you have done well, and my complaint is that I have not very much to grumble at. (Laughter.) And yet I have one little thing to complain of, and that is that there is no law to compel every chemist in business who, perhaps like my Scotch friend, has been in such clover for many years to join the Society. (Applause.) They do not appreciate the position the chemists of England occupy, and I should like to see a law by which every chemist in business and obtaining the great benefits from the work of the Pharmaceutical Society in connection with National Insurance would be compelled to belong to this Society. The Chairman had alluded in a sympathetic way to the payment of chemists' accounts, and had spoken in appreciation of the labours of the Advisory Committee. He sometimes felt sorry that Committee was dissolved, but, like the Chinese official, they were presented with a nice silken rope and then told to go and hang themselves, which they did. (Laughter.) He certainly did feel that the Society should be very determined that chemists' accounts should be paid in full, and that no deductions whatever should be made from them.

Mr. Tims referred to the causes of the deficiency in the Drug Fund in certain areas. He said that the actuarial calculations were made on the lives of the better-class of workers, but when every class of worker was included the basis was altered. With regard to the extra cost of medicine for women he thought this was, broadly speaking, attributable to women being paid less than men. It is a fact that in certain districts throughout the country there was an enormous demand for cheap labour. It is in these where a deficiency in he Drug Fund arose. It is, therefore, necessary that in these localities the Drug Fund should be increased so that chemists should be paid. Continuing, Mr. Tims suggested that the annual meetings of the Council are held too early in the afternoon. Many of them are unable to keep an assistant,

and in consequence are debarred from attending, or did so at great inconvenience to themselves

Mr. Faulkner suggested that the Council should renew its efforts to ensure chemists and druggists being exempt from jury-service. He reminded them that in order to qualify for their business they had to pass a very severe examination. There are members of other professions who are exempted for that very reason.

Mr. Fairweather, referring to the carriage of books from the library, said that if sent from the Provinces the carriage is paid one way, but why not pay carriage both ways, and in London as well?

Mr. J. H. Robinson (Liverpool), in the course of a breezy speech, congratulated the Council on their wisdom in appointing Mr. Woolcock as secretary of the Society. He expressed regret that Mr. MacKenzie had spoken as he had done about the changes in the staff. He ventured the opinion that Mr. Woolcock is worth 1,200*l.* a year, and if he had been in the position ten years ago that meeting would not have been confined to that small room, and we would not to-day have been occupying those hard seats we have got to sit on. (Loud laughter.) The speaker then referred to the small number of Council candidates who came forward, and to the fact that some candidates having failed to secure election did not try again. He thought the counting of the votes should be done more expeditiously so as to put the candidates out of their misery by declaring the result that day. (Laughter.)

Mr. J. T. Barrett said the reason he did not come forward for election a second time was that when he found his views were not acceptable he did not think it advisable to go on as it were ploughing the sands. He was rather amused at the views put forward by Mr. MacKenzie respecting the pension to the late Secretary. His impression of the circumstances under which it was given was this. When the late Secretary was appointed there was a general understanding that a pension would be given. Seeing that he was appointed with that idea, the Council felt that they could not take up any other position and so gave the pension to him. He also understood that following on this the Council thoroughly explained to the staff that that ended the matter, and that pensions would not be given in the future to secretary or any other official. He desired the opportunity of pointing out that the School of Pharmacy is costing the Society 1,000*l.* a year more than is received in fees. He took no exception to the school, because he believed it to be necessary, but as one who had some experience of educational matters, he believed it possible that the school could be carried on without a loss. (Hear, hear.) It could be so carried on if managed and organised in the way it should be. The report contained a passage to the effect that the advanced classes for chemists were better attended than the accommodation allowed for. He should like the President to explain who were the men who received the advantages to which reference was made. It is unjust, he said, that the Council should ask their electorate to give a guinea subscription, and then spend a portion of the money upon a certain number of the students when other students have not the same advantages. All students should have the same advantages open to them as the School of Pharmacy students had. (Applause.) Mr. Barrett then went on to deal with what he described as the ridiculous position taken up with regard to the insurance business—why, as chemists, they had signed a paper binding them to accept of the money that was paid them. They might have struck out that clause, and they would then have been able to demand payment of the money in full. But they had, as a matter of fact, signed away their birthright. That being the case he failed to see how they could take up the position some of them were inclined to take up. It is only fair, however, that larger sums of money should be paid to the more densely populated areas.

Mr. J. W. Douglas said he was rather glad Mr. MacKenzie had raised the question of the annuity paid to the late Secretary, because the sum paid seemed rather a heavy one. At the same time they could not now help themselves. [Mr. MacKenzie: "Oh, yes, we can," and laughter.] The question is rather whether the annuity is wanted or not. Now he believed the first Secretary of the Society, who was succeeded by the gentleman who recently retired, left something like 20,000*l.* The position was, therefore, that a man who is going to leave 20,000*l.*, perhaps more, scarcely needed 400*l.* a year. No one, Mr. Douglas went on, begrudged the present Secretary a salary of 600*l.* a year, but he noticed under the General Fund the item "salaries 1,472*l.*" Now how many clerks had the Society, and, he asked, are they being paid a living wage? He did not think there is a clerk in the service of the Society who would object to an increase in his wages. (Hear, hear.) More than that, he did not think that an important clerk to the Society ought to be an insured person. The next item to which he would call attention was "Members of Council travelling expenses and refreshments 612*l.*" He should like to see the two items separated, showing how much is paid for travelling expenses and how much for refreshments. Mr. Barrett had mentioned that there was a loss on the School of 1,000*l.*, but he had not pointed out that this was exclusive of any apportionment being made for rent. What he desired specially to know was what the School really costs, because obviously they could not conduct it rent free. Then there is no item showing the charge against it for clerical services. What, he asked, did it really cost to educate the gentlemen who attended it? Mr. Douglas urged that in connection with Parliamentary representation pharmacists should keep in close touch with and win the sympathy of local Members of Parliament. If this course were followed they would get many more Members on their side. (Hear, hear.) He was glad to hear the reference to reciprocity with the Colonies, but he had to ask, Why could not an Irish pharmaceutical chemist become a member of that Society? Surely he is well enough educated and represents the finest specimen of manhood in the world. (Applause.)

Mr. Finnemore remarked that there had been a great deal of misapprehension with regard to the conditions of entry to the Major course. He had to assure them that many gentlemen had gone through that course who had never been through the School of Pharmacy for the Minor examination. His idea was that the Pharmaceutical Society's School is too small for the number of students who come forward. In order that it should become a paying concern it is advisable that the Council should see their way to increase its capacity. It could then be placed upon a business footing. Referring to a remark from Mr. Robinson as to the waste of time in investigating the action of phosphoric acid on tintacks, he said that unless they kept the Society on a scientific basis it would be to the detriment of future generations of British pharmacists.

Mr. Barrett here asked the President to state in his reply the number of students to whom admission to the School had been refused during the past year.

Mr. Barlow remarked that of the ten men who had put themselves as candidates only four had aired their views in any way. He thought this arose from the cost involved. In the official Journal double the amount for advertisement-space is charged to candidates for seats on the Council. He advocated no charge.

Mr. G. J. Knight, speaking in connection with the National Insurance Act, instanced a doctor who regularly prescribed 12 oz. of Easton's syrup at a time for nearly everything. He had told the doctor that this is wrong and dangerous, and since then he was glad to say the local Committee had clipped his wings and frightened him. (Laughter.) So far as the new Secretary is concerned, he congratulated the Society on having him. He is certainly more than worth his money. He hoped the new Assistants Bill would not be allowed to become law for the gratification of outsiders, bounders or apothecaries. (Laughter.) It is unfortunate so few candidates came forward for the Council, and a point to be noticed that most of them were Wesleyan Methodists and those of such blue blood. (Laughter.)

Mr. Milner, alluding to National Insurance, thought that the pressure of the Council should be brought to bear upon the authorities in order that chemists should get

their money quicker. He did not speak so much for himself, or for the chemists of London, as for those throughout the country. He did not see any reason or sense for London pharmacists having owing them some 25 per cent. of three-fourths of the payments due for last year's dispensing. And yet in many industrial centres matters are far worse.

Mr. W. Pickard (London) suggested that the annual statement of assets should be revised. He noticed in connection with the Benevolent Fund there are shares entered at nominal values, but at the same time others may have appreciated in value, but he put it to the Council that the amount entered in respect to them had not been revised since the first purchase. Such a revision is necessary in order to get a proper balance. (Hear, hear.)

Mr. Whinery inquired, regarding assistants' qualification, whether it is proposed to admit as dispensers men who have no training in pharmacy, and are they to extend the same privilege to those who might have served three years in a pharmacy?

The President's Reply.

The President said it was gratifying to find that the discussion had been complimentary rather than critical in its character. Mr. MacKenzie they had seen and heard before—(laughter)—and they would miss him very much if he did not attend. (Hear, hear.) He usually distinguished himself on the financial side of the discussion, and the present is no exception to former occasions. Perhaps Mr. MacKenzie would be glad to know that in making the arrangements for the new Secretary the Council stipulated that there must be no pension at the end of his term. "The Council," remarked the President, "could not very well avoid the responsibility which some of us thought had been incurred, and I ask you, gentlemen, to believe that the Council took all these various things into consideration before they came to the decision they did. Mr. MacKenzie spoke of testing this thing; I would ask him not to do that, because the law is not a very profitable thing to employ. It is all right for the lawyers, but we cannot get much out of it.

Mr. MacKenzie: You say, then, you had a right to do it?

The President: If I may express an opinion, then, Mr. MacKenzie, I say yes. Another matter raised by Mr. MacKenzie was the question of the annual subscription being limited to a certain number of years' payment. That is a question of finance, and I do not see why it should not be seriously considered, and it will have due consideration in the right quarter. (Applause.) Mr. Pentney was good enough to approve of the Council's work this year, the President went on, and had suggested compulsory membership. He personally did not say this would be a good thing, but they would all like to see an even larger membership, and anything that directly conduced to that would be a good thing. Mr. Pentney also referred to the Society having taken a larger share in trade interests. "Gentlemen," remarked the President, "do not forget that it is just because the Society is what it is that it can do so with its influence. Do not make the mistake, however, that you can profitably neglect any one side of the work. The Council has intervened on your behalf and will continue to do so just so long as it can carry out its public duties. We have undertaken certain responsibilities in relation to the public and to your own members. Replying to Mr. Tims' remarks regarding the hour of meeting, the President promised that the point would be brought before the Council, and Mr. Tims would get his reply before next annual meeting. Mr. Faulkner had referred to the jury service. He assured them that the Council is not losing sight of the matter. It is perfectly hopeless, however, for the Society to promote a Bill on its own account dealing with the jury service. Some people think it is not a very creditable thing for a man to avoid that service, and it might be said that chemists, from their knowledge and experience, are essential. They might feel certain, however, that the Council has always the matter in mind. Mr. Fairweather referred to the carriage on books. This complaint would certainly be brought to the attention of the Library Committee. Mr. Robinson was rather torrential in his eloquence, but, he gathered, approved of what the Council had done. He hoped one day to see Mr. Robinson on the Council, when, he was sure, he would add to the enjoyment of the members. (Applause.) Mr. Barrett had referred to the school, but he did not think they need discuss the matter there. So far as he knew, education, pure and simple, could never be paid for by the fees, and he did not know any department of life where a school of that type could be self-supporting. If they put up the fees to such a figure as would recoup them for the outlay, then nobody would be able to afford to come. They should not run away with any misapprehension. The school is open to anybody. There is no restriction, and he should be glad to see the school ten times bigger. With regard to the Major course, any student is at liberty to take advantage of the opportunities afforded, whether he attends the Minor course at the school or not. Mr. Douglas has also referred to the annuity to the late Secretary, but possibly he might yet agree with the decision which had been arrived at by the Council. He did not think Mr. Douglas need suppose the Council are doing anything unjust to their staff. The members of the staff are contented and are rendering good service, and anyone who had anything to do with the staff must be perfectly certain that the staff is efficient. Mr. Douglas had also referred to the school accounts. It was perfectly true they did not allocate to the school any rent. They could do so, but they could not yet any nearer facts nor would it make any difference in the accounts. With regard to reciprocity so far as Irish pharmacists are concerned, there should be no difficulty if terms could be arranged, but he did not think that at the present the Society would be justified in accepting the Irish examination as equal to their own. One gentleman had referred to their losing their title. That, he thought, need not be discussed. Another gentleman had referred to the Assistants' Bill. This was introduced, as they were aware, practically to carry out a pledge given to the Government by Mr. Glyn-Jones on the authority of the Council. That authority was given after due consideration of all the circumstances involved. He contended that the pledge was justified, and that the Society is bound to carry it out. The Council has taken every precaution to guard themselves against the dangers of the situation. Mr. Whineray had referred to one point in the Bill with regard to registering pharmacists' assistants. The President read the clause of the Bill, showing that all assistants with three years' experience would be registered without examination. Continuing, he referred to the Drug Funds in overspent localities, and said that this is due to the nature of the occupations of those insured. He did not think chemists need run any risk about not receiving full payment, but they would quite see that the people who are responsible for the Act are bound to have some regard to the amount of money spent. They could not possibly give them a blank cheque. Concluding, the President assured Mr. Pickard that his point regarding the assets would be dealt with by the auditors in due course.

He then put the adoption of the annual report and statement of accounts to the meeting, and it was unanimously agreed to.

The scrutineers of the voting-papers of the election of Council were then appointed; they were asked to attend the next morning at 10 o'clock to begin their work.

The auditors were also re-elected, and the President called attention to the registers which were arranged in what he called the "stink cupboard."

Mr. H. H. Pollard (Ryde) then proposed a vote of thanks to the President for presiding, and this was carried with acclamation. This ended the meeting, which had occupied two hours.

Refreshments were served afterwards in the Examination Hall.

Drugs and Medicines imported into Bahrein, Persian Gulf, during 1912-13 included quinine (from India) valued at 33*l.*, as compared with 47*l.* in 1911-12 and 33*l.* in 1910-11.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

A Second Lancashire Conference.

At the County Offices, Preston, on Thursday afternoon, May 14, a meeting was held of the representatives of the Insurance, the Panel, and the Pharmaceutical Committees of the boroughs of Lancashire to consider the scheme proposed by the Secretary and Registrar of the Pharmaceutical Society of establishing a central office in Lancashire to check all the Insurance prescriptions of that county. Mr. S. P. Vivian attended on behalf of the Insurance Commissioners, and was accompanied by Mr. MacFarlane (divisional inspector). Mr. Harcourt E. Clare, Insurance Clerk of the Lancashire Insurance Committee, introduced Mr. Woolcock, who proposed that Mr. Travis-Clegg, Chairman of the Lancashire Insurance Committee, should preside. This was seconded by Mr. Peake, pharmacists' representative on that Committee. The following were the principal items on the agenda :

To consider the possibility of establishing a central office in Lancashire for the purpose of checking the chemists' accounts for 1914.

To consider the possibility of extending the scope of any such arrangements so as to embrace, under the joint control of Insurance and Pharmaceutical Committees, not only the checking of prescriptions, but also the conduct of any statistical investigations which the Panel and Pharmaceutical Committees may desire to undertake in connection with the discharge of their duties.

The Chairman having called upon Mr. Woolcock to explain his scheme, the Secretary and Registrar stated that the work of checking the prescriptions for the purposes of the Pharmaceutical and Panel Committees could be done more economically at one and the same time. In London and Middlesex, with 8,000,000 prescriptions, representatives of the three committees in control have agreed to this system, and he argued that it will work out satisfactorily. Mr. Woolcock considered that the present method pursued in Lancashire is wasteful and inefficient.

A considerable amount of discussion followed, from which it was clear that very diverse views were held by the representatives of the various interests present. The medical men were strongly of opinion that there is nothing in the scheme of checking which is any concern of theirs, and opposed any plan which required them to contribute towards the cost of checking the prescriptions, which is clearly an administrative charge.

Representatives of the Insurance Committees were mostly agreed that, from the figures given, the new scheme would largely increase the cost of the work, which is already done in a satisfactory way, and that the handling of large numbers of prescriptions simultaneously and expeditiously presents considerable difficulties.

It was proposed, seconded, and carried—

"That a committee be formed to consider if any advantages will accrue to Insurance, Panel, and Pharmaceutical Committees in Lancashire in appointing a Joint Committee to deal with any matter arising out of Medical Benefit Regulation 40 (1913) in connection with excessive ordering of drugs, and also to report whether in their opinion any of the duties might be beneficially and economically carried out by that committee."

The Committee was appointed as follows :

Six doctors, viz. : Drs. Oldham, Campbell, Farrow, Sutherland, Turnbull, and Greaves.

Six chemists, viz. : Messrs. Bates (Manchester), Kershaw (Rochdale), Scholes (Eccles), Last (Liverpool), Knott (Bolton), and Gifford (Blackburn).

Six representatives of Insurance Committees, viz. : Messrs. Davis (Manchester), Brockbank (Bolton), Graham (Burnley), Holland (Preston), Barrett (Blackpool), and Noden (Stockport).

Mr. Travis-Clegg was appointed Chairman, and he will summon a meeting at the County Offices, Preston, as soon as convenient. The meeting concluded with a vote of thanks to the Chairman and Mr. Vivian.

Representatives of the Press were refused admission to the meeting. The "Daily Dispatch" (Manchester) prints a statement about it, from which we extract the following :

"The scheme provides, it is understood, that the whole of the doctors' prescriptions for Lancashire, including the boroughs, shall be sent to a central bureau to be established at Preston. There the prescriptions of the individual doctors will be sorted out, and comparisons made with those of other doctors in the same district. Where there is a discrepancy between the cost of prescriptions that demands explanation, one will be sought, and if this is not satisfactory the doctor will be surcharged. It is estimated that the cost of the new scheme will be 4,000*l.* per year, in addition to what is now being spent by the various authorities in checking prescriptions, but that the increased efficiency from the extra checking will be worth the cost. For over two hours the matter was discussed without any definite result being reached. Objections were raised to the expense of the scheme, and some delegates held the opinion that the work could be done more economically by having the additional checking done in their own areas by their own staffs, instead of forming the centre at Preston. Finally, it was decided to appoint a joint committee of doctors, chemists, and Insurance Committee representatives to investigate and report on the advantages and disadvantages of the scheme. One delegate, from a large county borough, told our representative that the cost of checking prescriptions in his district is now 5*s.* per 1,000. The question of adopting the new scheme would require careful consideration. The system suggested could, of course, be done by the different authorities themselves with an increased staff, but by doing that the cost would increase to 10*s.* per 1,000. The investigation would give an idea of whether or not the centralised system would be cheaper and more effective."

Similar statements regarding the business of the meeting have appeared in other Lancashire papers.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

ENGLAND.

Bradford.—Mr. R. T. Silson presided at the meeting of the local Pharmacists' Association on May 14, when the Hon. Secretary (Mr. C. Robinson) read a reply from Dr. Clow (Hon. Secretary of the local Medical Committee), who suggested that it is obvious that the deficit in the Drug Fund is too large to be accounted for by extravagant prescribing on the part of a few practitioners. Dr. Clow added that he would, however, call the attention of the Panel Committee to the matter. Mr. Robinson reported that in his reply to the Pharmaceutical Society's questions he had stated that only 85 per cent. of the drug-bills for 1913 had yet been paid. In regard to the quarter ended April 11, the total chemists' accounts amounted to 4,822*l.* 10*s.* 6*d.*; the money available for payment of these was only 3,185*l.* If the bills were discounted to the extent of 33⅓ per cent. the Insurance Committee would then have paid 29*l.* over the money available. Mr. M. Firth said he firmly believed that, unless they tried to surcharge doctors in cases which had been proved justifiable during the past medical year, the Insurance Commissioners would not listen to anything they had to say. They must put the existing machinery into motion and try to show whether the deficit was due to extravagant prescribing or excessive sickness or some other cause. Mr. H. R. Jackson pointed out that a lot of last year's prescriptions were now in London, and it would take a man six months to scrutinise them. Mr. Robinson said such a scrutiny must be dropped because it would be a tremendous undertaking, and there is no money to pay for doing it. Mr. Metcalfe said it was surely obvious by this time that over-prescribing only touched the fringe of the question. The main cause of the deficiency was the large proportion of women among the insured persons in Bradford. After further discussion, it was agreed that it is not advisable to take further local measures, in view of the fact that prompt action had been promised from headquarters after the information received from the various districts had been collated.

Burton-on-Trent.—At the meeting of the Pharmaceutical Committee held on May 12, it was reported that Mr. A. H. M. Purse (Sunderland) had been appointed to check the prescriptions at 8*s.* 4*d.* per 1,000, with a special report. Attention was called to the fact that the doctors are frequently omitting in the new prescription-forms to indicate to which fund (Ordinary, Domiciliary, or Temporary Resident) the prescription is to be charged. The Secretary was requested to call the Insurance Committee's attention to the matter, and ask that the doctors may be circularised thereon. The Secretary read the replies he had given to Mr. Woolcock's queries on the state of the

Drug Fund in 1913, from which it appeared that there is a deficiency of 103*l.* 10*s.* 10½*d.* after all the money in the Drug Fund has been paid out. It was also pointed out that the first quarter of 1914 shows a deficiency of 155*l.* While hoping that this will largely be remedied by the lighter summer quarters, it was recognised that the outlook is serious, but local action was thought to be unwise at present pending the result of the checking and report, and any action that may be taken by the Pharmaceutical Council. The figures for 1913 are as follows:

	No. of Scrips.	Value. £ s. d.	Average. d.
First quarter	13,150	390 18 4½	7.244
Second quarter	11,823	387 15 0	7.871
Third quarter	9,173	290 4 8½	7.593
Fourth quarter	12,555	376 8 2½	7.195
	46,701	1,445 6 3½	7.476
First quarter, 1914 ...	17,063	535 13 3	7.534

Insured persons on register, 17,005.

Eastbourne.—Mr. W. Price presided at a meeting of the Eastbourne Pharmacists' Association held at the Queen's Hotel on May 12. The Hon. Secretary (Mr. Marchant) reported on the Executive meeting, and the decision with regard to the application for administration expenses, which the Chairman of the Panel Committee (Dr. Ewart) thought very reasonable, and assured the pharmaceutical representative that they were going to make a joint application.

Essex.—The Insurance Committee met on May 19, when the Finance Sub-Committee reported that arrangements had been made for the meetings of the Panel Committee and the Pharmaceutical Committee to be held at Armfield Hotel, South Place, London, E.C., at a charge of 8*s.* 6*d.* per meeting. It was decided to make no alteration in the basis upon which payments on account are being made to chemists, the feeling being that the Insurance Committee must "hasten slowly" as regards keeping less money on hand, owing to increasing demands on the Drug Fund. Chemists who rendered their accounts promptly will accordingly receive 90 per cent. of their face value on May 21 at the latest. The number of prescriptions for the quarter ended April 11 was 214,365, value 7,282*l.* 2*s.* 6*d.*, compared with 205,925, costing 5,632*l.* 1*s.* 7*d.*, in the corresponding quarter last year. In regard to a doctor who had been removed from the West Ham panel, the Insurance Committee decided, while "recognising the serious nature of the offence," to take no action beyond a vote of censure, as he had already been sufficiently punished. The matter will come before the Pharmaceutical Committee, as the offender was acting both as doctor and chemist. In reply to a communication from the Clerk to the Insurance Committee, the Secretary of the Pharmaceutical Committee wrote that it was not proposed to take any action regarding pharmaceutical service at Manor Park in the evening until a specific case is raised, in view of the fact that chemists there are open until 10 P.M. The Medical Benefit Sub-Committee reported that the Panel Committee had sent in a list of articles which should be disallowed (*C. & D.*, April 25, p. 136), and had referred the matter to the Pharmaceutical Committee. The latter's reply (which practically referred the whole list back to the Panel Committee) is being dealt with by the Panel Committee. Five names were added to the list of chemists. Southend-on-Sea, which became a county borough on April 1, is continuing to have applications from insured persons resident in that area dealt with by the Essex Insurance Committee's Chief Tuberculosis Officer (Dr. Thresh). It was reported that a doctor whose name had been put on the dispensing panel would lose 350*l.* a year by this.

Gloucester.—Chemists are to be paid 324*l.* 13*s.* on account for the past quarter, approximately 65 per cent. of their bills.

Huddersfield.—At a meeting of the Insurance Committee on Wednesday evening, May 20, Mr. Walshaw stated that the chemists were to be paid only 55 per cent., and that would not cover the bare cost of drugs alone. This heavy discounting he attributed to increase of 920 prescriptions over the corresponding quarter of last year. The Mayor stated that the Insurance Commissioners had been appealed to for a solution of the difficulty.

Hertfordshire.—Prescriptions issued for the quarter ended April 11 numbered 56,950, absorbing 1,875*l.* 18*s.* 7*d.*, an increase of 9,704 prescriptions, costing 626*l.* 10*s.* 7*d.*, as compared with the corresponding period of last year. During last quarter 496 prescriptions were chargeable to Sanatorium Benefit, these amounting to 31*l.* 2*s.* 4*d.* It is anticipated that 90 per cent. of the chemists' claims will be paid within the next few days.—The Insurance Committee met on May 18, when the Clerk reported that the Pharmaceutical Committee had submitted revised estimates, owing to travelling expenses and attendance-fees for members not being allowed by the Insurance Commissioners. The estimates for the half-year ending July 14 were:

	£ s. d.
Hire of room for meetings	3 3 0
Checking two quarters' prescriptions	35 0 0
Cost of election of Pharmaceutical Committee ...	4 4 0
Expenses for organising pharmaceutical service in the county	26 5 0
Printing, postage, and stationery	10 0 0
Payment of secretary	10 0 0
Secretary's incidentals	5 0 0
	£93 12 0

The Panel Committee had stated their willingness to agree to payment of such expenses which in the opinion of the County Insurance Committee and of the Commissioners are reasonable and in conformity with the requirements of the Act and the Regulations. The Clerk stated that it would appear that certain of the expenditure set out above was not within the contemplation of Section 33 (2) of the 1913 Act, but inasmuch as these expenses would be defrayed out of moneys available for the provision of Medical Benefit, it is a question which did not materially affect the Insurance Committee. In the circumstances the Committee should forward the estimate to the Insurance Commissioners for consideration. An arrangement with Mr. G. S. Durrant, of Hertford, to check prescriptions by chemists other than those carrying on business in Hertford, at the rate of 5*s.* per 1,000, was approved. Mr. Millbank, of Bishop's Stortford, is to check prescriptions by chemists carrying on business at Hertford. For the quarter ended April 11 seventy-six chemists claimed 1,875*l.* 18*s.* 7*d.* for 56,950 prescriptions. The number of prescriptions for the corresponding period of 1913 was 47,246, and the amount claimed 1,241*l.* 17*s.* 11½*d.* The increase was 10,210 prescriptions and 655*l.* 13*s.* 11*d.*

Hull.—At the meeting of the local Pharmacists' Association on May 19, Mr. Staning stated that up to now only 75 per cent. has been paid of the panel chemists' bills. Mr. Selle moved that a new and comprehensive sheet of prices be printed and issued immediately to members, so that the chemists might know exactly how they stand. Mr. Walton seconded. This was agreed to. Mr. Good proposed that no repeat mixtures extend over a month back be accepted. Mr. King seconded, and on Mr. Selle's suggestion it was added that all prescriptions should be written in full by the doctor on the 12th of the month. It was thought generally that the repeat idea should be done away with altogether. Mr. Selle was entrusted with the preparation of the draft list of mixtures.

London.—The Pharmaceutical Committee met at their new offices, 233-236 Bank Chambers, High Holborn, London, W.C., on May 12. Mr. J. Keall was in the chair, and all the members except one were present. Correspondence relating to non-payment of certain chemists' accounts, errors of pricing and checking prescriptions, and the new system of furnishing Insurance accounts was dealt with. The Committee considered the new mode of assembling Insurance prescriptions would facilitate checking and expedite payment. It was agreed that musk should be supplied at the cost of the Drug Fund, the question arising over the drug being prescribed in a case of pericarditis. The Committee's accounts were then passed for payment after a short discussion. The General Purposes Sub-Committee made some recommendations as a result of the recent conference of representatives of the Panel and Pharmaceutical Committees. These were approved, the following being carried as resolutions:

(1) That the supply of all sera and vaccines (other than autogenous) should be obtained through chemists by prescription, and that the cost of same be charged to the Drug Fund.

(2) That samples of medicine dispensed for insured persons be obtained by an officer of the London Insurance Committee and submitted to a public analyst, any necessary legal action to be at the discretion or on the recommendation of Joint Services Sub-Committee.

A case of collusion betwen a doctor and a chemist was brought before the Committee. It was decided to hand over the matter to the London Insurance Committee for action to be taken by the Pharmaceutical Service Sub-Committee and the Joint Services Sub-Committee. If no satisfactory result be obtained thereby, the Pharmaceutical Committee will communicate with the Insurance Commissioners. Another conference is to be held with the Panel Committee, who have now agreed to share the cost of checking prescriptions. The Secretary was instructed to visit Woolwich in connection with the pharmaceutical service there; and a complaint of excessive prescribing in the East-end was referred to the Drugs and Appliances Sub-Committee. It was decided to ask the Insurance Committee

r a list of accounts for last quarter in which the value r 100 exceeds 4*l.* 10*s.*, in order to examine them as regards travagant prescribing. It was decided to circularise panel emists to the effect that all complaints regarding the nel service should be reported to the Pharmaceutical Comtte, as also any evidence of extravagant prescribing which uld seriously affect the Drug Fund.

Manchester.—At the annual meeting of the local Pharceutical Association on May 13 (p. 98), Mr. Harry Kemp plained the result of negotiations for the 1914 ug Tariff, which, he observed, was almost the last in gland to be approved. Water is not to be charged for, ept when aqua dest. is prescribed. Some aqueous tinctes are to be allowed on the understanding that they tain all the active ingredients of the B.P. tinctures, and eries of stock mixtures is being arranged. Mr. Mallinson plained the system of averaging doctors' accounts which in progress at the Insurance Committee's offices, so that average cost of each prescription, average cost per ient, and average number of scrips per patient could easily arrived at. Items over those averages would be med open to surcharging. The opinion was expressed t, after giving up malt and oil, distilled water, and adopt stock mixtures, chemists had gone far enough. Some icism was passed on the manner in which Mr. Mallinson d Mr. Kemp had dealt with various difficulties during past year. No acceptance was taken of Mr. Kemp's r of the option of others taking their place. Eventually ote of confidence was passed with acclamation, and the gentlemen were heartily thanked for their self-denying k.

Newcastle-on-Tyne.—The Insurance Committee has pointed Mr. John Richardson as checker of chemists' unts at a salary of 120*l.* per annum.

Norfolk.—Chemists had been paid 90 per cent. of their unts for the quarter ended January 11, but a final lement is not yet possible, as the Insurance Commisers are still unable to provide the final credits.

Oldham.—Chemists' accounts for the quarter ended il 11 amounted to 2,517*l.* 12*s.* 10½*d.* The chemists' rest for an inspection of these has been granted. At the ting of the Insurance Committee on May 12 Dr. Anderson stated that at a recent interview the Commisers stated that they would have no objection to advances hemists not exceeding 75 per cent. of their accounts.

Reading.—The following statistics of chemists' accounts the quarter ended April 11 were given at the Insurance mittee's meeting on May 14: Drug Fund, 24,332 prescptions, 934*l.* 13*s.* 6½*d.*; Sanatorium Fund, 333 prescripns, 24*l.* 18*s.* 6½*d.*: Temporary Residents' Fund, 111 prescptions, 5*l.* 8*s.*; total prescriptions, 24,776—965*l.* 0*s.* 1*d.* figures show a considerable increase upon those for corresponding quarter of 1913, when the totals were 5 prescriptions, value 596*l.* 8*s.* 3*d.* The Medical Benefit Committee recommend payment on account to chemists last quarter at the rate of 13*s.* 4*d.* in the pound on unts chargeable to the Drug Fund, and that the accounts geable to the Sanatorium Benefit and Temporary Resis' Funds respectively be paid in full. The payments therefore be as follows: Drug Fund, 623*l.* 2*s.* 11½*d.*; torium Benefit Fund, 24*l.* 18*s.* 6½*d.*: Temporary Resis' Fund, 5*l.* 8*s.*; total, 653*l.* 9*s.* 6*d.* This Sub-Committee instructed the Clerk to communicate again with the Panel Committee with reference to the urgent necessity of ideration being given to various matters relating to the ply of proprietary articles, vaccines, etc. Mr. E. P. Cooper, in referring to the great increase in the number of priptions, said these were being classified in an endeavo to find out the reason for the higher cost. One matter h was very irregular had come to the knowledge of Sub-Committee. Either there must have been collusion een doctor and patient or between doctor and chemist.

Sheffield.—A Pharmaceutical Committee meeting was on May 13, Mr. J. Gilbert Jackson presiding. The ing confirmed the Secretary's action in asking the rance Committee for a further payment on account of 1913 accounts. The Panel Committee is to be asked rescribe uniform doses and size of bottle in the new ulary; also that "Rep. mist." should not be used n reordering from the formulary, and numbers should be used for formulary prescriptions. The Committee led to apply for one-eighth of the penny available per ed person for administrative expenses. The following r was ordered to be sent to the Insurance Committee:

"The Pharmaceutical Committee is very disappointed at the pay to chemists and others of only 60 per cent. of the face value ir accounts for March, and desire that some means of paying xtra 15 per cent. deducted contra to our agreement will be in order that it shall not remain an additional deduction the settlement for the year ending in January, 1915.

Another letter is to be sent to the Panel Committee calling their attention to the large increase in the charges upon the Drug Fund, and that the average cost per prescription had risen from 7½*d.* in 1913 to 8½*d.* last quarter. Another request to the Insurance Committee is for a sum of 800*l.* from the Sanatorium Benefit Fund for tuberculosis prescriptions charged to the Drug Fund. Cheques will be presented to the next Finance Committee meeting for some 1,600*l.*, for payment of 10 per cent. on account of the balances for 1913. Chemists may expect to receive them about June 6. Mr. Appleton has been appointed assistant to Mr. B. Lancaster, pharmacist to the Insurance Committee, to assist in bringing prescription-checking more up to date. There were thirty-eight applications for the post.

Southampton.—The Borough Insurance Committee had before them on May 11 a recommendation from the local Medical Committee "that proprietary articles should be allowed, with the exception of those bearing the name of any particular maker." This decision was the result of a conference with the Pharmaceutical Committee, and it was decided to ask the two Committees to submit a list of proprietary articles they suggested the Insurance Committee should allow. The Secretary of the Pharmaceutical Committee stated that the drug accounts for the year ended January 11 had been submitted to his Committee and accepted by them. It was resolved that the outstanding balances for last year be paid. The Finance Sub-Committee recommended that payment on account to chemists for the quarter ended April 14 should be deferred until all accounts had been received by the Committee. For the quarter ended April the cost of drugs, etc., was 1,050*l.*, more than 400*l.* over the corresponding period last year; it was 300*l.* more than the previous quarter, which was fairly heavy. The Drug Fund amounted to approximately 1,050*l.*, and the Committee authorised payment of 80 per cent. The Chairman said this would make no material difference to the chemists, who would get what balance remained.

South Shields.—The "North Mail" is reviewing the working of the National Insurance Act in a series of articles, of which the third and fourth contain details of interest to the drug-trade. The panel list of chemists contains thirteen names, representing twenty shops. The Clerk to the Insurance Committee (Mr. J. W. Ridley) is reported as saying there is comparatively little malingering. "A great difficulty—one that is experienced in many other industrial areas—is the insufficiency of the Drug Fund. There is a very large percentage of sickness here, and much of it is in the nature of minor injuries sustained by employes at the shipyards and works. Thus a more than ordinary quantity of bandages and dressings are required, and, these articles being costly, our drug-bill is exceedingly heavy. The result is that the Drug Fund has been inadequate. Last year we were 10 per cent. short of the necessary amount, and this quarter we are 20 per cent. short." The Drug Fund for 1913 is estimated provisionally at 2,407*l.* 15*s.* 7*d.*, with another 802*l.* 11*s.* 10*d.* from the Drug Suspense account. The chemists' bills for the past year totalled 3,714*l.*, and the amount actually paid to the chemists was 3,172*l.*, so that 540*l.* is still due.

Warrington.—A statement presented to the Insurance Committee on May 12 showed that chemists' accounts for the first quarter of the current year amounted to 813*l.* 10*s.* 11*d.*, compared with 582*l.* 11*s.* 4*d.* for the corresponding period last year, an increase of 230*l.* 19*s.* 7*d.* The approximate amount in the Drug Fund is 600*l.*, a deficit of about 213*l.* The statistics of prescriptions are:

	Number of Prescriptions	Average Value *d.*
1st quarter, 1913	19,813	7.14
2nd do. do.	14,636	7.64
3rd do. do.	14,782	7.88
4th do. do.	16,478	8.35
1st do. 1914	22,536	8.67

The increase in the average value of prescriptions for the past quarter over the corresponding quarter of last year is 1.53*d.*, with an increase in number of 2,723. If the average value of the first quarter of 1913 had been maintained during the past quarter, the accounts would have totalled to 670*l.* 8*s.* 11*d.*, or 143*l.* 2*s.* less than the accounts as rendered. The statement was not discussed.

West Riding.—The Pharmaceutical Committee met in the County Hall, Wakefield, on May 14, Mr. F. Pilkington Sargeant presiding. Mr. Briggs (Horbury) acted as secretary in the absence of Mr. R. Broadhead through indisposition. A lengthy agenda was considered. It was decided to take action where regulations are not being observed by some panel chemists, and to ask the Insurance Committee to circularise the pharmacists that on orders for emuls. ol. morrhuæ, B P.C. strength must be supplied.

West Bromwich.—Panel chemists have been asked to send to the Sub-Committee of Pharmacists, which meets the doctors on May 26 to compile a local formulary, such formulæ as they consider necessary for inclusion therein to the Secretary (Mr. Kemsey-Bourne) before that date. The recommendations made by doctors and chemists at their last meeting to reduce the drug-bill and to abolish "Rep. mist." have been approved by the Medical Benefit Sub-Committee, with the exception of dispensing duplex mixtures when ½-oz. doses are ordered. This has been sent back for further consideration and redrafting. A marked slump in dispensing has been noted since it became known that the Committee had not enough money to pay 90 per cent. of last quarter's chemists' accounts, ordering of larger bottles and smaller doses occurring more frequently.

SCOTLAND.

Aberdeenshire.—The Pharmaceutical Committee of the county met in the Forsyth Hotel, Aberdeen, on May 13, to consider what steps should be taken in connection with the deduction of 20 per cent. which has been made by the Insurance Committee on panel chemists' accounts for the past quarter. Mr. John Cruickshank (Bucksburn) presided. The Secretary (Mr. J. R. Reith, Cults) explained the situation, and a two hours' discussion followed, in the course of which indignation was expressed at the action of the Insurance Committee in making so big a deduction without first of all consulting the pharmacists. Other decision on the matter was deferred. It is reported that panel chemists in Fraserburgh, Turriff, Strichen, and many other places in East Aberdeenshire have agreed to recommend to the Pharmaceutical Committee that, unless 15 per cent. of the deductions is in their hands within a week, they will have nothing to do with Insurance dispensing. Panel doctors have also taken umbrage at the Insurance Committee's action, which is considered to be most unsatisfactory.—At the meeting of Aberdeenshire panel doctors in Aberdeen on May 15, it was decided to seek the advice of counsel on the legality of the action of the Insurance Committee in deducting 20 per cent. from the last quarterly payment. It was decided to ignore postcard 547 (*re* better dispensing-fees), because it was calculated to create disagreement between chemists and panel practitioners. It was resolved to recommend that the Drug Fund for Scotland be pooled to enable chemists to receive money due to them.

Dundee.—The resolutions of panel chemists (see *C. & D.*, May 16, p. 53) came before the Insurance Committee on the same evening that they were adopted—May 13. The Clerk (Mr. David Duncan), in submitting the communication, said that he had telephoned to the Commissioners repeatedly asking when the balance due for Medical Benefit last year would be paid. He again telephoned them that day, and he was assured that a cheque for the balance was to be posted immediately, so that there was every prospect that the balance of 10 per cent. deducted from the accounts last year would be paid by June 1. Mr. J. H. Thomson (a pharmacist member of the Committee) said that was satisfactory as far as it goes, and insisted in a strong speech that the whole system of proportional payment is unsatisfactory. He added, on behalf of chemists, that in any future agreements they hoped the power of discounting would be limited. The withholding of 10 per cent. from their accounts until they were properly audited and checked was not unreasonable, he said; but for the Committee to be in a position of asking their contractors to supply goods to be subject to the merciless operation of an unlimited discounting clause was little short of scandalous. This remark was received with approval. The Clerk submitted a statement regarding the Drug Fund, which showed that for the four quarters of the past year they were entitled to expect an income of 7,118*l.* They had been provisionally credited with 6,180*l.* They had paid to the chemists for the first quarter 1,358*l.*, for the second 1,636*l.*, for the third 1,423*l.*, and for the fourth 1,735*l.*—in all, 6,152*l.* A sum of 617*l.* is still due, and he had anticipated that there would be sufficient to pay that balance. For the first quarter of this year the Drug Fund on 76,437 persons amounted to 1,910*l.* The Committee had been credited with 1,438*l.*, and had paid out of that to chemists 1,451*l.*, leaving a balance of 726*l.* still due. Dr. R. Cochrane Buist said the protest of the chemists should be remitted as it stood to the Commissioners, and on the motion of Mr. Thomson, seconded by Dr. Buist, it was unanimously agreed to do this. At the same meeting it was decided to petition the Commissioners to add rupture-trusses to the list of appliances.

Edinburgh.—The Clerk to the Insurance Committee sent to panel chemists last week the balance remaining on the Drug Fund for 1913 as an additional *pro rata* retrospective payment (11 per cent.). This is the bonus promised by the Scottish Insurance Commissioners. At the same time the Clerk sent a letter in regard to "repeat" prescriptions, in which it is stated that all prescriptions must be written out in full. He adds that panel chemists should refuse to dispense them, and he has called the attention of panel practitioners to this instruction.

Glasgow.—At a recent meeting of the Pharmaceutical Committee the request of the Commissioners for details of the probable expenses of the Committee was discussed, and it was decided to submit the following estimate:

	£	s.	d.
1. Secretary's honorarium	30	0	
2. Rooms for meetings	15	0	
3. Examining accounts thoroughly for instances of extravagant prescribing each month	400	0	
4. Postages and telegrams	20	0	
5. Use of typewriter	3	10	
6. Telephone proportion of rent and trunk calls	3	10	
7. Car fares	3	0	
8. Books, printing, and stationery	30	0	
9. Expenses in connection with Pharmaceutical Service Sub-Committee and Joint Services Sub-Committee	52	10	
10. Investigation into complaints under Regulation 49 ...	52	10	
11. Inquiries relating to chemists (reg. 52, 76)	52	10	
12. Additional duties falling on the Committee under regulations which may be made in future by the Commissioners	52	10	
Total	£715	0	

Satisfaction was expressed that the three delegates appointed by the Committee to the General Council of Panel Chemists had all been elected members of the Pharmaceutical Standing Committee (Scotland), and that, in addition, Mr. Guthrie had been appointed Vice-Chairman. The method adopted by the Scottish Commissioners to ascertain the opinions of panel practitioners in Scotland regarding the proposed increased scale of dispensing-fees was adversely commented on. The Chairman explained that this had been discussed by the Sub-Committee of the Standing Committee during the previous two days. A strong protest had been lodged against the manner in which the chemists' case had been presented in the Commissioners' circular, and the very numerous price blunders in Schedule 2. The Sub-Committee had failed to induce the Commissioners to alter their circular, except as regards the blunders in prices, and the Sub-Committee had therefore decided to post to every panel practitioner in Scotland a statement of the chemists' case, although it was recognised that this would be received too late to affect the vote. Since the meeting it is understood that the panel practitioners in Glasgow have discussed the chemists' proposals at a general meeting, the outcome of which is that there is likely to be a conference between practitioners and chemists on the subject at an early date. The Scottish Commissioners now state that they are prepared to sanction the expenditure of money by Insurance Committees on the checking of prescriptions. Meantime the matter of a central checking (or pricing) bureau for the whole of Scotland is being pressed. We understand that the Glasgow Insurance Committee's arrangements as regard the prescribing of proprietary articles is working harmoniously. In this the chemist is paid for any proprietary prescribed by a panel doctor and dispensed by the chemist. When the accounts are checked the doctor is informed that the proprietary is against the regulations and the amount paid to the chemist is deducted from the doctor's bill.

Kirkcaldy.—The Pharmaceutical Committee has protested against the deduction of 25 per cent. from chemists' accounts, stating that they agreed to only 10 per cent. being retained. It was also suggested that the Insurance Committee should allow overdraft interest on deductions necessary through back funds.

WALES.

Flintshire.—A report on the past medical year shows that there are forty-three chemists on the panel, twenty-seven of whom have places of business within the county and sixteen outside. One pharmacist's bills amounted to 210*l.*, another received 180*l.*, six between 50*l.* and 100*l.*, and thirty-one under 50*l.* The provisional estimates provide 1,841*l.* 13*s.* for the Drug Fund and 613*l.* 17*s.* 8*d.* for the Drug Suspense Fund. Doctors had been paid 937*l.* 18*s.* 2*d.* as capitation fees for dispensing, and chemists 1,453*l.* 16*s.*, leaving a balance of 63*l.* 16*s.* 5*d.* The number of persons for whom doctors dispensed was 9,380, while chemists dispensed for 11,890. The chemists' accounts for the year amounted to 1,453*l.* 16*s.* The cost per head of insured persons, 2*s.* 5½*d.*; total number of prescriptions, 44,400, and the average cost per prescription was 8*d.* Chemists have also received 90 per cent. of their accounts for the quarter ended April 11.

The Exports from Bahrein Islands during 1912-13 included spices valued at 2,500*l.*, as compared with 3,404*l.* in 1911-12 and 1,900*l.* in 1910-11.

LEGAL REPORTS.

TRADE LAW.

Sacco.—Mr. Stevens, the proprietor of the Sacco consumption-cure, is bringing a fresh action against the British Medical Association for alleged libel contained in the statements made respecting Sacco in "Secret Remedies." It may be recalled that Mr. Stevens took action before, but the jury disagreed (see *C. & D.*, 1913, I., 444).

Companies and Income-tax.—In the case of Purdie *v.* the King, heard by Mr. Justice Rowlatt in the King's Bench Division on May 19, the plaintiff, a married woman, claimed for repayment of income-tax deducted from dividends on shares, and his Lordship dismissed her petition. He pointed out that income-tax is imposed on the companies as such, and is not a tax on the shareholders, but on the companies, which might deduct the amount of the tax from the dividends to shareholders, but nevertheless the companies remained the taxpayers.

Patent Agency.—Before the Divisional Court of King's Bench on May 18, the case of Hans *v.* Graham was an appeal against a conviction of the appellant having described himself as a patent-agent in contravention of Section 84 of the Patents and Designs Act, 1907, by affixing the words "Patent Agency" to his window. The Court held, on the authorities, that this either described the work done or the place where it was done, but did not describe the appellant as a patent-agent, and allowed the appeal. Mr. Justice Rowlatt expressed regret that a breach of the Act could be so nearly approached without being actually committed.

Soya-beans Shipment.—Judgment in the case of the Olympia Oil and Cake Co. and the Produce-brokers' Co. (*C. & D.*, May 16, p. 38) was given by the Divisional Court of King's Bench on May 19. Justices Avory, Rowlatt, and Bearman, by their combined judgments, decided that the contract for soya-beans (which were shipped and subsequently lost through shipwreck) contemplated a declaration, and an appropriation of a ship and goods then in existence by the sellers to the buyers, and that a valid appropriation could not be made under this contract of goods that for the purpose of the contract were at the time no longer in existence, even though there might have been a prior valid appropriation of the same goods by the original sellers. The Court therefore remitted the case to the arbitrator with this direction.

High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

THE BUTTERLY CASE.

In the King's Bench Division, Dublin, on May 15, in the case Hegarty *v.* Butterly (*C. & D.*, May 2, p. 41), application was made to Mr. Justice Molony, on behalf of the plaintiff, for an order deeming the substituted service of the writ and order which was effected upon the defendant's wife good and sufficient service upon the defendant, or for an order for substituted service on the defendant's wife in the British Isles. His Lordship said the whole theory of allowing substituted service of the writ on a wife was that she could get at her husband and communicate with him. In the present case the wife of the defendant had no more means of getting at her husband than the plaintiff had. He was not going to assume that she was going to use the Marconi apparatus. After remarks by Mr. Weir Johnston on behalf of the plaintiff, his Lordship continued that the defendant (Dr. Butterly) had gone on a round voyage, and he must come back to Liverpool some day, which the plaintiff could be certain. He would not give an order on the wife, so he refused the application.

Property in Prescriptions.

Mr. S. Schmulevitz, of 78 High Street, Kingsland, described as a chemist, was summoned before Mr. d'Eyncourt, at North London Police Court on May 19, for detaining a prescription the property of Mr. Samuel Mentz, 92 Highbury New Park. The defendant explained that he had not got the original prescription, and therefore could not give it up.

The complainant said that the prescription was for a hair-wash, and was given to him by Dr. Sequeira. He took it to Mr. Marshall's shop in the High Street, and the prescription was from time to time made up. The business was subsequently sold by Mr. Marshall to the defendant, and the witness obtained the wash from him. For a particular reason he asked for the prescription back, and the defendant refused to give it up. The defendant said he bought the business for 200*l.*, and he produced the agreement to show that he had purchased all the prescriptions with the business. The prescriptions were in a book, which he produced.

Mr. d'Eyncourt: What has become of the original prescription?—The Defendant: I do not know; we do not keep them.

Mr. d'Eyncourt: My own experience is that the prescriptions are returned. Have you looked for it?—The defendant said he had not, but he was willing to give the complainant a copy of the prescription on payment.

Mr. Gottlieb objected to pay anything.

The defendant subsequently agreed to give a copy there and then without payment, and Mr. d'Eyncourt said he would allow the summons to be withdrawn on payment of 13*s.* 6*d.* costs.

Mr. Gottlieb (for the complainant) suggested that the prescription should be cut from the defendant's book, but the Magistrate said that the complainant would have to be satisfied with a copy. It was a matter for the doctor who had given the prescription if it were infringed.

The defendant made a copy of the prescription in court, and it was handed to the complainant.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

LONDON ASSOCIATION FOR THE PROTECTION OF TRADE, LTD.—H. Wippell Gadd (Evans, Gadd & Co.), Exeter, wholesale druggist, and C. J. Park, Mutley, Plymouth, chemist, are signatories. R.O., 66 Berners Street, W.

NEW ACID CO., LTD. (P.C.).—Capital 30,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of, contractors for, and dealers in chemicals and chemical products, sulphuric acid, tar distillers, oil refiners, etc. R.O., 44 Piccadilly, Tunstall, Staffs.

OLD MOORE'S DRUG CO., LTD. (P.C.).—Capital 2,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, dealers in patent medicines, drysalters, oil and colour men, etc., and to acquire from A. Young, Monument Road, Wigan, the trade-mark or name of "Old Moore."

GREENCROFT, LTD. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of wholesale and retail chemists and druggists, manufacturers of and dealers in salts, alkalies, medicines, anæstheties, herbs, proprietary articles, oils, colours, varnishes, etc. The subscribers include J. Bloomfield, manufacturers' agent, 4 Fernwood, Newcastle-on-Tyne.

COPPEN BROTHERS, LTD. (P.C.).—Capital 76,000*l.* Objects: To take over the business of wholesale and retail provision merchants, chemists and druggists, and general providers carried on by H. W. Coppen and G. S. Coppen at Carey Street, Vincent Square, Westminster, and elsewhere, as "Coppen Brothers," and at Richmond, Surrey, as "Coppen Brothers & Co." (an unlimited company), and to adopt an agreement between the said vendors of the one part, Coppen Brothers & Co., and H. W. Coppen, the liquidator thereof, and this company. H. W. Coppen and G. S. Coppen are permanent governing directors.

Company News.

LIEBIG'S EXTRACT OF MEAT CO., LTD.—The directors recommend a final dividend on the ordinary shares for 1913 of 10 per cent. (being 10*s.* per share), together with a bonus of 2*s.* 6*d.* per share, both free of income-tax. This will make a total distribution for the year of 22½ per cent.

OXYDOL (1914), LTD., have by special resolution amended their memorandum of association by the following resolution: "That the employment of the word 'Tabloids' in the memorandum of association is an inadvertence, and that it is not intended to make any further use of such word." The company had taken power to "manufacture tabloids"!

W. J. BUSH & CO., LTD.—The seventeenth annual general meeting was held on May 14 at the Institute of Chartered

Accountants, Moorgate Place, E.C., Mr. James Mortimer Bush (Chairman and managing director) presiding. In moving the adoption of the report and accounts (see *C. & D.*, May 16, p. 40), the Chairman said that the past year's trading might be considered satisfactory, for although the net profit did not reach the figures of the previous year, the turnover was the highest on record. The decrease was due in the main to increased expenses, in which salaries and wages figured conspicuously. The extraordinary fluctuation in prices of some of the company's most important articles had also contributed to the decline in profits. The American company, which had been reincorporated under the laws of the State of New York, is making substantial progress, and all the other branches are working along satisfactory lines. The company's buildings at Hackney are inadequate for the growing needs of the business, and during the year under review a series of extensions and alterations were commenced, which will probably take another two years to complete. The report was unanimously adopted.

"Sanitas" Co., Ltd.—The annual general meeting was held at the factory in Limehouse on May 19, Mr. C. T. Kingzett, F.C.S., chairman, presiding. In moving the adoption of the report, the Chairman congratulated the shareholders upon the continued and growing prosperity of the company, and directed attention to the very satisfactory increase in sales of the company's manufactures. He said that the value of "Sanitas Fluid" for preventing oral sepsis by its regular use as a wash for the mouth and teeth is being more and more endorsed by the medical profession and the public at large. In this respect it ranks highest of all available antiseptics, in addition to which its unique and non-poisonous character renders it the only disinfectant suitable for use in sick-rooms and for general toilet and household employment. With respect to "Sanitas Powder," the publicity that has been given to its value in the garden as a preventive and protective against the ravages of slugs, snails, insects, and other soil pests, together with its continued popularity as a disinfectant-powder for general use, has resulted in a largely increased consumption. Further improvements have been patented in connection with several articles made by the company, including their patent drain-testers and appliances for fumigating with formaldehyde. The use of "Sanitas" for spraying the air of picture palaces was also referred to. The Chairman further announced that it has been decided to build a relief factory in the neighbourhood of the present one. Mr. R. M. Cunningham seconded the adoption of the report, which was carried unanimously. An abstract of the report was printed in the *C. & D.*, May 16, p. 40.

BIRTH.

Authenticated notices are inserted without charge.

Campkin.—At 29 Warwick Gardens, Kensington, London, W., on May 12, the wife of Percival S. Campkin, L.D.S., of a son.

MARRIAGE.

Authenticated notices are inserted without charge.

Allen—Linfield.—At St. Peter's, Southsea, on May 19, Charles Trounson Allen, Ph.C., Kilburn, to Bertha, daughter of Mr. and Mrs. John Linfield, of Southsea.

DEATHS.

Authenticated notices are inserted without charge.

Fink.—We are informed that M. Fink, of the well-known pharmacy in Geneva, died on May 16.

Frazer.—At Salford Royal Hospital, Manchester, on May 11, of acute pneumonia, Mr. Samuel McCall Frazer, Ph.C., in his sixtieth year. Mr. Frazer was a son of the late Mr. Daniel Frazer, of Frazer & Green, Buchanan Street, Glasgow, and he himself became a pharmaceutical chemist in 1874, having also passed the Minor examination in that year. Subsequently he was associated with his father in the business until 1897, when he withdrew, and the late Mr. J. W. Sutherland took his place in its management. Mr. Frazer was devoted to art matters, and after leaving pharmacy was associated with a pottery business, in which his artistic tastes were turned to advantage. His surviving brother is Dr. James George Frazer of Trinity College, Cambridge, and Liverpool University.

Frasch.—At his home, in Paris, on May 1, Mr. Herman Frasch, formerly chief chemist of the Standard Oil Co. and president of the Union Sulphur Co., aged sixty-two. The late Mr. Frasch was a distinguished technologist, and began his career as an inventor with a process for refining paraffin wax in 1876, and in 1890 conceived a process for bringing Louisiana sulphur to the surface of the earth in a molten condition by the use of superheated steam. By this process, which was briefly described in the *C. & D.* of February 17, 1912 (p. 38), Mr. Frasch earned an immense fortune. So well did the process work that about a decade ago Italy lost the United States' market for sulphur. Indeed, the United States became an active competitor on the European market, and some years ago Mr. Frasch took part in negotiations for obtaining his share of this trade. In 1912 Mr. Frasch was presented with the Perkin medal of the Society of Chemical Industry for distinguished service in the field of applied chemistry.

Mr. H. Frasch.

Griffiths.—The Hon. John Lewis Griffiths, Consul General for the United States in London, died suddenly on Sunday evening, May 17, at his house in Lowndes Square, Belgravia, London. Mr. Griffiths was in his sixtieth year. He was American Consul in Liverpool before he came to London some six years ago, and here he was remarkably popular, especially with the American community, who petitioned the present Government to retain Mr. Griffiths in his post, although politically he differed from the Government, and this request was readily acceded to. Mr. Griffiths was one of the finest orators in this country, and on all occasions a remarkable ready speaker—as, for example, when he attended the complimentary dinner to Mr. Samuel W. Fairchild in the Constitutional Club, Northumberland Avenue, he charmed the company with his appreciation of pharmacy and its workers.

Holmes.—The death has occurred, at the age of fifty-five, of Mr. Francis Holmes, Ph.C., who until recently carried on business for many years at 199 Woodhouse Lane, Leeds. Mr. Holmes, who was a native of Bradford, settled in business in Leeds after qualifying in 1881. He was a member of the Leeds Chemists' Association, but he did not take any active part in its affairs. Mr. Holmes leaves a widow, but no family. The interment took place at Undercliffe Cemetery, Bradford.

O'Neill.—At Belfast, on May 16, Councillor Dr. Henry O'Neill, J.P., aged fifty-nine. Dr. O'Neill was formerly connected with pharmacy, having been for a number of years with the firm of Wheeler & Whitaker, High Street, Belfast, which is now defunct. He afterwards qualified for the medical profession.

Rankin.—At Magaliesberg, on April 20, James Powell, eldest son of Mr. George Rankin, chemist and druggist, Potchefstroom and Klerksdorp, South Africa, aged fourteen.

West.—At 26 Woodville Terrace, Bradford, on May 14, Mr. William West, F.L.S., chemist and druggist, aged sixty-six. Mr. West, who passed the Minor in 1870, commenced business on his own account shortly afterwards. His business in Little Horton Lane reflected his botanical bent, and in June 1899 he sold his business to Messrs. J. Savage & Co., so as to enable him to devote his whole attention to the teaching of botany and materia

dica and natural science at the Municipal Technical llege and certain secondary schools. He was a member the old Bradford Druggists' Society, now defunct, and o of the present Bradford Pharmacists' Association. was elected an honorary member on leaving the retail de. His appointment as lecturer in botany at the chnical College dates back to 1886, the work at first ng carried on after shop-hours. His great enthusiasm botany was reflected in his teaching. Much of his earch-work was done in conjunction with his son, fessor G. S. West, Professor of Botany at Birming- n University, and both of them are experts on British shwater algæ. Mr. West and his son wrote the "onograph of British Desmideaceæ, 1904-1911," which s published in several volumes under the auspices the Royal Society. Mr. West contributed many ers on his favourite algæ to the Royal and Linnæan ieties and to the Botanical Section of the British ociation. He had filled the office of President of Yorkshire Naturalists' Union, the Bradford Natural tory Society, and the Bradford Scientific Society. West leaves one son (Professor West) and one ghter (Mrs. J. W. H. Johnson). The funeral at olemoor Cemetery on Saturday was attended by repre- atives of the various Societies with which Mr. West been associated.

PERSONALITIES.

henticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

R. Samuel W. Fairchild, of New York, is now on his way to London on a business visit.

R. Francis W. Passmore, 81 Queen Victoria Street, don, has been appointed a visitor of the Royal titution.

R. Edward Peck, chemist, East Dereham, Norfolk, been elected to the local Urban District Council to fill a casual vacancy.

R. P. J. Ashfield, pharmacist, High Street, Rhyl, on May 13, re-appointed Chairman of the Rhyl ertising Association. The proposer of the motion for election referred to Mr. Ashfield as "the incompar- ."

Memorial in the form of a mural tablet, with portrait relief, and a suitable inscription, is to be erected to the late Mr. R. Clay Sudlow by the Masonic fraternity, and will be placed in Freemasons' Hall, London. Sir Edward Letchworth, F.S.A., P.G.D., is Treasurer to the Fund.

recognition of her twenty-one years' faithful ser- , Messrs. Burroughs Wellcome & Co. have presented a gold watch to Miss Kate Bowles, of the "Wellcome" Chemical-works, Dartford. Mr. G. E. Pearson, general manager, made the presentation on Thursday, May 14.

R. E. Herbert Morris, pharmacist, formerly in the litary department of Messrs. Burroughs Wellcome & Co. and who is a contributor to popular magazines, has been appointed advertisement manager to Vauxhall Motors, Ltd., 174-182 Great Portland Street, London, W.

R. Thomas Hannah, Amersfoort, Transvaal, has recently arrived in London, having sailed by the *Galeka*. He has come to London with a view to prosecuting before the Privy Council an appeal against his conviction under the Medical, Dental, and Pharmacy Acts of the Transvaal for practising as a chemist and medical man without being registered. Mr. Hannah is on the Natal Register of Chemists and Druggists, and had started a branch at Amersfoort under the impression that he had been registered in the Transvaal as a chemist, but he was summoned for acting as an apothecary and medical practitioner, was convicted and heavily fined on over thirty counts. Mr. Hannah carried the case to the Appellate Division of the Supreme Court at Bloemfontein, on September 19, 1913, but the conviction was sustained. He has since addressed the Speaker and Members of the House of Assembly of the Union of South Africa as well as King George V., General Botha, and now the Privy Council, Whitehall.

ASSOCIATION AFFAIRS.

Bradford.—A meeting of the Bradford Pharmacists' Association was held at the rooms of the Bradford Chamber of Trade on May 14, the Chairman (Mr. R. T. Silson) presiding. Before the commencement of the business the Chairman said he had just been informed of the death of Mr. William West, who was known to and respected by all as a man of great attainment in the scientific world and a clever teacher. The meeting passed a vote of sympathy with Mr. West's relatives. Mr. West was at one time a member of that Association. Many of those present had been students under Mr. West at the Technical College. The Chairman announced that the Council of the Association, after considering the claims of the various candidates for election to the Pharmaceutical Council, recommended the members to vote for Mr. Daniel Arnott, and for other candidates according to their discretion. It was resolved to hold the annual excursion on July 8, which will take the form of a trip to Grassington.

Burton-on-Trent.—At a meeting representative of all firms in the borough, held by invitation at the residence of Mr. W. Lean (managing director of Messrs. Francis Hallam, Ltd.), it was decided to form a new Chemists' Association to fit in with the reorganisation scheme of the Pharmaceutical Society, and under the title "Burton-on-Trent Pharmacists' Association." Membership will be open to all qualified chemists in business in the borough on their own account, and to all qualified managers of chemists' shops. The following were appointed officers: *President*, Mr. Hy. Staley; *Secretary and Treasurer*, Mr. W. Lean (22 High Street). Meetings will be held on the second Tuesday in the month immediately following the meeting of the Pharmaceutical Committee. The Parliamentary Fund and Mr. Saville Peck's dispensing questions were attended to.

Chemists' Assistants' Association.—The annual general meeting was held in the Bonnington Hotel, Southampton Row, London, W.C., on May 14. The President (Mr. F. W. Crossley-Holland) was in the chair, and there was a representative gathering of members. The literary and financial reports were presented by Messrs. W. Roberts and R. W. Warrick, and adopted. In proposing a vote of thanks to the retiring President, Mr. E. H. Brittain referred to the valuable work and great energy which the President had put into the session. The vote was seconded by Mr. E. Thompson, and carried with applause. The Essay prize, consisting of a cheque for 5*l.* and a copy of Remington's "Pharmacy," given by Burroughs Wellcome & Co., and the C.A.A. silver medal, was presented to Mr. J. Stanley White for his paper on "The Ubiquitous Germ." The scrutineers then presented the result of their examination of the voting-papers for the next Council, which will consist of Messrs. W. Roberts, F. W. Crossley-Holland, E. Thompson, W. P. Styles, A. R. Arrowsmith, E. H. Brittain, C. W. Gosling, C. E. McMillan, G. A. Tocher, H. W. Andrews, E. M. Haslam, F. G. Wells, H. Martin, and F. Minter. Votes of thanks were also passed to the Secretaries, Treasurer, Auditors (Messrs. R. E. Lownsbrough and A. Latreille), and Scrutineers; and in his valedictory remarks the Chairman also thanked the Council and all those who had worked with him to make the session as successful as it had been.

Chemists' Dental Society.—The annual meeting of the Chemists' Dental Society of Great Britain and Ireland was held at Holborn Restaurant, London, W., on May 20, the President (Mr. E. Brownbill) in the chair. Those present included Mr. Templar E. Malins (Vice-President), Mr. J. W. Roberts (Treasurer), Messrs. W. L. Barrett, G. W. Curtis, J. F. Dickenson, J. Y. Fairweather, F. Hancock, J. Hearle, E. A. Holloway, A. H. Jenkin, E. Miller, E. Ockwell, and Benson Harries (Hon. Secretary). The third annual report, presented by the Hon. Secretary, stated that the work of the Society has proceeded quietly during the year. Opportunities had been taken of bringing the objects and claims of the organisation before those concerned. The new members enrolled during 1912-13 numbered 33, and in 1913-14 23. Correspondence in the columns of The Chemist and Druggist, originated by Mr. C. T. Allen, hoping that dental chemists seeking recognition would obtain "the rebuke they deserve," resulted in the Society's existence being amply justified and its claims overwhelmingly substantiated. Undoubtedly benefit had accrued to the Society from this correspondence, and thanks were due to the *C. & D.* for the hospitality of its columns. A Dental Society had been formed in Ireland during the year, but druggists are admitted to the membership as well as pharmacists, and there seems to be no reason why the Chemists' Dental Society should on this account withdraw

from the field. The financial position of the Society is a matter for congratulation, the Treasurer's statement showing a balance in hand of 130*l*. There have been very few claims under the insurance scheme, which speaks well for the care exercised and efficiency shown by members in their dental work. The report was adopted after considerable discussion and questions.

Chemist-Opticians.—The annual meeting of the Society of Chemist-Opticians was held at St. Bride Institute, Ludgate Circus, London, E.C., on May 20. The President (Mr. F. S. Horsey) was in the chair, and there were also present Mr. C. J. G. Bunker (Treasurer), Mr. G. Curtis, Mr. R. Fouracre, Mr. S. W. Woolley, and Mr. J. Harcombe Cuff (Hon. Secretary). The business, which was quite formal, consisted in the re-election of six members of Council and the adoption of the annual report and financial statement. Abstracts of the last two have been given in the *C. & D.* The President briefly commented on the report of the Council. Votes of thanks concluded the meeting.

Dewsbury.—A meeting of the Dewsbury Pharmacists' Association was held at the Church House, Dewsbury, on May 18. The President (Mr. G. N. Gutteridge, Dewsbury) occupied the chair, and there were also present ten members and the Secretary (Mr. R. J. H. Day). The circular from the British Pharmaceutical Conference with reference to uniform methods in the *Dispensing of Abnormal Prescriptions* was considered, and suitable replies were drawn up. A discussion on *The Relationship between the Wholesaler and the Retailer* in regard to the sale of poisons was raised by the President, and at the end Mr. Pickard moved that the wholesale houses be written to on the subject. This was agreed to.

Edinburgh.—The annual meeting of the Edinburgh District Chemists' Trade Association was held at 36 York Place, Edinburgh, on May 14, Mr. Archibald Currie (Chairman) presiding. The Chairman, Vice-Chairman, and Secretary were appointed to answer Mr. E. S. Peck's dispensing queries, and they, with Mr. R. L. Hendry, were appointed delegates to the Conference at Chester. Communications were submitted from the Pharmaceutical Standing Committee (Scotland) with reference to a revised Tariff and other matters. It was mentioned that medical practitioners in Edinburgh and Leith appear to deprecate the existence of a floating sixpence as a matter of contention between doctors and chemists, and desire to have it removed, so that arrangements for the supply of drugs can be entirely a matter for agreement between the chemists and the Insurance Committee. The action taken by the Standing Committee was approved. Mr. Muir reported on Edinburgh matters (see p. 94). Mr. James Dick (Hon. Secretary) submitted the annual report, showing a membership of 104. The unsatisfactory attendances at meetings was referred to, and other matters. The resignation of Mr. Blenkiron, who had done excellent work as Secretary, was much regretted. Mr. J. S. B. Heddle (Hon. Treasurer) submitted the financial statement, which showed a balance of 9*l*. 4*s*. to the good. The reports were adopted. It was remitted to the Committee, with powers to consider the arranging of a summer excursion. It was decided to bring the matter of the Parliamentary Fund to the notice of the members. The following office-bearers were elected: *Chairman*, Mr. Adam Duncan; *Vice-Chairman*, Mr. A. J. Clark; *Hon. Secretary*, Mr. James Dick, 16 Parson's Green Terrace, Edinburgh; *Hon. Treasurer*, Mr. A. A. Murray; *Hon. Assistant Secretary*, Mr. G. Victor Wright; *Members of Committee*, Messrs. Currie, Forret, Glass, Harley, Heddle, Henderson, Innes, McNab, Macpherson, Mitchell, and Muir. Donations of two guineas to the Pharmaceutical Benevolent Fund and one guinea to the Orphan Fund, in acknowledgment of the privilege of holding meetings in the Society's House, were agreed to. Mr. Currie, the retiring Chairman, was cordially thanked.

Grimsby.—A meeting of the Council of the Grimsby Pharmacists' Association was held at the Oberon Hotel on May 4. Mr. Sneath (President) was in the chair, and there were also present six members and Mr. C. H. Ashton (Hon. Secretary). The correspondence was dealt with, and in the case of the particulars required by Mr. E. Saville Peck for his symposium on dispensing procedure the Secretary was directed to prepare answers for submission to the meeting to be held on June 1. Some new items were added to the goods to be purchased through the Buying Section.

Huddersfield.—At the meeting of the Huddersfield Chemists' Association on May 19, Mr. H. E. Spurr presiding, it was reported that the total cost of drugs and appliances for the quarter ended April 11, 1914, was deficient to the extent of about 45 per cent. It was felt that the payment of 55 per cent. for the first quarter of the current year would be intolerable, and something would have to be done by the Government to meet the deficiency. The payment barely covered, if it did cover, the cost of d leaving alone the question of labour. Messrs. Wals Russell, and Cockroft were appointed to attend the Br Pharmaceutical Conference at Chester in July.

Hull. Mr. T. W. Robinson presided at the meetin the Pharmacists' Association at the Grosvenor Hote May 19. Mr. Jones (Joint Secretary) stated that he received a reply from the Hull Board of Guardians st that the Board did not propose to make any alteratio their present method of obtaining drugs. After discus it was decided to send a protest to the Board.

Lancaster.—A meeting of the Lancaster Chemists' ciation was held at the King's Arms Hotel, Lancaster, week, Mr. F. N. Whitehead, of Morecambe (the Presid in the chair. The chief matters under discussion were Pharmaceutical Parliamentary Fund and the Assistan Chemists and Druggists (Qualification) Bill. There w general feeling that it would be wise policy to extend Parliamentary representation, so as to bring the view chemists before the chief political parties. It was dec to support the Parliamentary Fund, members to subs individually, but the Secretary will receive the dona and send them forward collectively. Discussing Assistants Bill, the members were unanimous in the opi that it gave drug-stores an unfair advantage by allo them to conduct their business without registered assis and without qualified men.

Leigh.—A meeting of the Leigh Chemists' Associ was held at Atherton on May 14, Mr. J. W work presiding. A letter was read from Mr. W cock thanking the Association for their contributio the Pharmaceutical Parliamentary Fund, and, o to the appeal made through the County Pharmaceu Association, it was resolved to increase the contributio 5*s*. per member. It was resolved also that the subscri to the County Association be increased to 10*s*. members stated that some scripts which should have to the Sanatorium Fund had been charged to the Fund through not being so marked by the doctors. It resolved to ask the Insurance Committee for a list of n of those receiving Sanatorium Benefit, so that the che could make the correction when necessary.

London Ucalites.—A meeting of the Ucal Lodge Pharmacy in London was held at 225 Tottenham C Road, London, W.C., on May 14, with Mr. C. W. Brum (President) in the chair. Mr. G. F. Storey, of Me Storey, Evans & Co., in a lantern-lecture on adverti dealt with the methods by which the United Chemists' A ciation, Ltd., intended to gain greater publicity for t goods.

Manchester.—The annual meeting of the local Pha ceutical Association was held on May 13 at the Al Hotel, Piccadilly, Manchester. The President (Mr. F. Bates) occupied the chair, and about seventy members present. The annual report by the Hon. Secretary (A. L. Blain) reviewed the principal pharmaceutical ev of the past session. A report on the work of the Insur Committee was read by Mr. G. A. Mallinson. interest was taken in this year's election of Council, is the first on a territorial basis combined with represe tion of wholesale and non-practising pharmacists. resulted in the Council being constituted by the follo members: Messrs. Bates, Bell, Blain, Blackburn, Cleworth, Dickson, Drinkwater, Delve, Eastwood, Haworth, Grier, Kirkby, Kidd, Kemp, Lane, Hersh Miller, Mallinson, Nidd, Pidd, and Wild. A vote of th was passed to the President (Mr. F. W. Bates) for his vices. Mr. Bates, in replying, said it had been a year building-up. The scheme of local organisation had successfully arranged, and the Association was in a stro position to-day than it ever had been. He also refe to the failure to make a closer arrangement with t neighbours, the Salford Pharmaceutical Association, said the Salford "entente" was in progress.—A Com meeting was held on Wednesday afternoon, May 20, the purpose of electing the new President and officer the Association. Mr. F. W. Bates proposed Mr. W. Kir as President, which was seconded, but Mr. Kirkby decli the honour, remarking that he was sorry to do owing to stress of business and the fact that he woul unable to devote the time and energy required to fill duties of President. Mr. A. L. Blain (the Hon. Secret resigned his office on account of the increasing work private affairs. He offered a willing hand to his succes Mr. Blain also declined the Presidency, which Mr. Ja Grier, M.Sc., accepted. Mr. F. W. Bates and Mr. W. Delve were elected Vice-Presidents; Mr. Pidd was elected Treasurer; and Mr. G. A. Mallinson was elec Hon. Secretary, with Mr. Miller as co-Secretary.

Mansfield.—The annual meeting of the Mansfield Pharmacists' Association was held on May 13. The President (Mr. Jesson) was in the chair, and there were also present five members and Mr. A. H. Bell (Hon. Secretary). The Secretary's report on the year's work was read, and referred to National Health Insurance dispensing, the most important items being that the prescribing of patent medicines and proprietaries has been stopped, as also the ordering of serums and vaccines, with four exceptions. The amount of the Drug Fund was 7,813*l.*, and the amount spent was 7,800*l.*, so that chemists have been paid in full. The report was adopted. The following officers were elected: *President*, Mr. G. W. Briggs (Sutton-in-Ashfield); *Vice-President*, Mr. J. F. Dickenson; *Treasurer*, Mr. B. Adams; *Hon. Secretary*, Mr. A. H. Bell. Votes of thanks were passed to the retiring officers. The Treasurer's report showed a balance in hand of 9*l.* 12*s.* 8*d.* Two guineas was voted to the Benevolent Fund. The ordinary meeting followed, with Mr. Briggs in the chair, when circulars from Council candidates were considered, and Mr. Peck's list of questions on dispensing problems. The Secretary was instructed as to the replies to the latter. The Secretary reported on the work done by the Insurance Committee. He asked that any member who had a complaint made against him should immediately on receiving a copy of the complaint from the Clerk to the Insurance Committee send it on to him (the Secretary), so that he could know of it before the meeting. He mentioned two trivial complaints from doctors against chemists at the last meeting. The Insurance Committee considered them paltry, but cases might arise where opinions might be required beforehand. The question of altering the name of the Association to the Notts County Association was left over till the Nottingham and Notts Association had discussed and settled the question at their next meeting.

Nottingham.—The annual general meeting of the Nottingham and Notts Pharmaceutical Association was held at the Victoria Station Hotel, Nottingham, on May 20. The President (Alderman R. FitzHugh, J.P.) presided. There was a good attendance of members. The Council's report was adopted *nem. con.*, and the statement of accounts by Mr. H. P. Middleton (Treasurer) was received and adopted. Mr. French and Mr. Clay were elected auditors. Mr. Freeman and Mr. H. Middleton were appointed delegates to the British Pharmaceutical Conference at Chester. Rule 1, regarding the title of the Association, was then discussed, with the result that it was decided to change the title of the Association to the "Nottingham Pharmaceutical Association." The election of officers and Council then took place, with the following result: *President*, Alderman R. FitzHugh; *Vice-President*, Mr. A. Middleton; *Treasurer*, Mr. H. P. Middleton; *Secretaries*, Messrs. C. F. Clay and E. E. H. Turton; *Committee*, Messrs. A. E. Bailey, H. C. Prince, J. T. Robson, W. Gill, A. Norweb, C. E. Reynolds, F. Ross Sergeant, and T. Wilson. It was decided to hold a picnic on the first Thursday in July. Votes of thanks closed the proceedings.

Paisley.—The annual meeting of the Paisley Pharmaceutical Association was held on May 14. The Secretary's and Treasurer's reports were considered very satisfactory, and were adopted. The office-bearers for the ensuing session were appointed as follows: *President*, Mr. Alexander Fraser; *Vice-President*, Mr. William Sim; *Secretary*, Mr. Hawthorn Stewart; *Treasurer*, Mr. Angus Brown; *Members of Committee*, Messrs. Robert Inglis, David Hendry (Renfrew), and David Penman (Johnstone); and *Representative of Assistants*, Mr. George Hair. The President entertained the members to tea.

Plymouth.—On May 11 the chemists' assistants and apprentices of Plymouth met together at Clarence Chambers, Tavistock Road, Plymouth, and decided to form the Western Pharmaceutical Alumni, with the motto "Qui non proficit, deficit." There was a good attendance, and the following office-bearers were appointed: *President*, Mr. C. A. Burdett; *Vice-President*, Mr. R. G. Gollop; *Treasurer and Secretary*, Mr. E. R. Parken; *Committee*, Messrs. Scoffman, Mayne, J. Smith, Stephens, and Garner. It was arranged to hold a series of meetings in the rooms every Monday and a lecture every fortnight. The first lecture was given on Tuesday evening of this week by Mr. Stephens on *Umbelliferæ*. He is to be followed by Mr. Smith, who will deliver a lecture on *Ions*.

Preston.—On May 14 Preston pharmacists were surprised by the receipt of an invitation to tender for the supply of drugs, etc., to the Tuberculosis Dispensary. A schedule of formulæ for stock mixtures was attached for which quotations per 8-oz. bottle were required. A meeting of the local Association was held at the Bull and Royal Hotel on Friday evening to consider the matter, Mr. W. F. Lisney presiding. He pointed out the danger of cut-throat competition, and the possibility of chemists with branches in different parts of the town tendering at an unremunerative figure to secure the dispensing and exploit it as an advertisement; also that the cut prices tendered for the malt and oil and the stock mixtures would lead to awkward comparisons with the prices obtained under the Insurance Tariff, with possibility of the same system being adopted by the Insurance Committee. He submitted a scheme for a combined tender based on the existing Tariff prices, to be sent in by the Association Secretary, by which the dispensing for the tuberculosis officer could be done on the same lines as that for the Insurance Committee. After discussion of details the scheme was unanimously approved, and a committee of four appointed to discuss the matter with Dr. Hewat, the tuberculosis officer. Another meeting of the Association was held on Tuesday evening, May 19, at which the deputation reported that they were accorded a most courteous reception, and with a few modifications the proposals submitted were approved. It transpired, however, that one member was determined to tender individually, and the meeting closed without a decision being arrived at.

Somerset.—A meeting of the Somerset County Pharmacists' Association was held at Bridgwater on May 7, Mr. C. Clutterbuck in the chair. The officers for the present year were elected as follows: *President*, Mr. C. Clutterbuck; *Treasurer*, Mr. J. Cooper; *Secretary*, Mr. S. G. Tydeman. Thanks were tendered to the retiring officers. It was decided to send a circular letter to every member of the Association and also to every pharmacist in the county, asking for donations towards the Pharmaceutical Parliamentary Fund.

Stockton.—A meeting of the Stockton Pharmacists' Association was held in the Silver Grill on May 15, the President (Mr. T. W. Salmon) in the chair. After the formal business, Mr. E. S. Peck's letter regarding *Uniformity in Dispensing* was discussed, and the Secretary was instructed to send answers according to the views of the meeting. A discussion took place on the *Pharmaceutical Parliamentary Fund*, and it was decided that the Secretary should call upon each member for subscriptions to the fund. A number of promises were given at the meeting. The question was raised as to whether the Association should take any steps with regard to *Prescribing Proprietary Medicines for Insured Persons*. A long discussion took place, but the majority felt that there is no ground of complaint, the percentage of proprietary medicines ordered being very small, and such as are ordered are only those which the doctors use regularly in their own surgeries for their private patients. Mr. Finlayson asked if it would not be possible to come to some arrangement with regard to the *Half-day Closing*. At present most of the chemists in the town are open on the Thursday evening. No practicable solution of the difficulty could be found.

Students' Association.—The annual meeting of the School of Pharmacy Past Students' Association was held at 17 Bloomsbury Square, London, W.C., on May 20, the President (Mr. Edmund White) in the chair. The annual report stated that the present membership of the Association is 250, while the balance-sheet showed a credit of 8*l.* 9*s.* 8*d.* Mr. John C. Umney was elected *President* for the coming year, Mr. V. C. Hewlett was re-elected *Treasurer*, Mr. Harry Martin *Secretary*, and the *Committee* was elected as follows: Miss Buchanan, Messrs. W. H. Allen, R. R. Bennett, Alan Francis, C. H. Hampshire, W. B. Nelson, and W. R. Pratt.

The Olive-oil Output of Greece is estimated at about 19 million kilos. for 1913, as compared with 22½ million kilos. in 1911.

The Leicester Pharmacy Athletic Club did well in their cricket-match against Leicester Banks Second Eleven on Thursday, May 14. Batting first, they collected 138 runs, of which H. Chawner and H. E. Chamberlain each contributed 33, A. E. Ferguson 22, and T. Peberdy 18. H. Chawner and A. E. Ferguson bowled with such good effect that their opponents were dismissed for forty-two.

Middlesex Pharmaceutical Committee.—Mr. J. Humphrey presided at a meeting held on May 14, at which Mr. A. E. Bailey (the Secretary) resigned, in consequence of his appointment as Chief Clerk in charge of the checking staff of the Drugs and Appliances Sub-Committee of the London Insurance Committee. Mr. Hugo Wolff (Tottenham) was elected in his place. The arrangements entered into with the London Joint Committee, whereby the work of checking will be carried on jointly for the two counties, were approved.

WESTMINSTER WISDOM.

The Week in Parliament.

Sunday Closing Bill.

The Bishop of London's Bill was on Tuesday referred by the House of Lords to a Select Committee.

Medical Prescriptions Bill.

Lord Lamington has informed our Parliamentary correspondent that it is not his intention to reintroduce this Session in the House of Lords his Medical Prescriptions Bill of last year. It is possible, however, that it may make its appearance in the House of Commons.

National Health Insurance.

The Chancellor of the Exchequer has informed Mr. F. Cassel, M.P., who asked what proportion of the grants of 1,250,000*l.* for the year 1914-15, and of 2,000,000*l.* for the year 1915-16, for National Health Insurance tuberculosis nursing and pathological laboratories it is estimated will be attributable to Ireland, that the figures may be stated provisionally as follows: 1914-15, tuberculosis, nursing, and pathological laboratories, 22,500*l.*; 1915-16, 67,500*l.*

Motor-spirit Duty.

In the House of Commons on Monday the Chancellor of the Exchequer informed Major Hope, M.P., that the total amount of duty collected on home manufactured and imported motor-spirit in the year ended March 31, 1914, was 991,765*l.* The amount actually repaid on account of motor-spirit used for industrial or other purposes was 150,382*l.*, and, in addition, 4,829,892 gals. was delivered duty-free for industrial purposes, representing an allowance of 60,374*l.*

Taxation of Benzol and Kerosene.

In the House of Commons on Tuesday the Chancellor of the Exchequer, in reply to Mr. Weigall, said he is aware that benzol and kerosene are to some extent used for the propulsion of motor-vehicles, though he has not previously seen anything like so high an estimate of the amount so used as is suggested in the question (46,000 tons). The question of the taxation of these articles, if and when they come to be ordinarily and generally used for supplying motive-power to vehicles, will not be lost sight of.

Infants' Milk Bill.

The text of this Bill has now been issued. The first clause provides that—

"On and after the passing of this Act it shall be the duty of the local sanitary authority to provide for the supply of pure milk, free of all adulteration as defined by any regulation made by the Board of Agriculture under the Sale of Food and Drugs Act, 1899, to the persons entitled under this Act."

Other clauses enable mothers entitled to Maternity Benefit to buy pure milk from local authorities, in quantities not exceeding a quart per day, for three months from the time of the baby's birth.

The Plumage Bill.

The Government Plumage Bill, in the discussion of which Mr. Glyn-Jones, M.P., has taken a prominent part throughout, has now passed through Committee. At the final meeting on Tuesday the hon. member moved a new clause as to exemption from prosecution. He stated that he has seen the Postmaster-General himself in possession of plumage on the occasion of important ceremonials. (Laughter.)

Mr. Hobhouse: But it was not prohibited.

Mr. Glyn-Jones: The right hon. gentleman could not say that. As the Bill stands at present there is not a member of the Committee who could say whether the feathers were prohibited or not.

The clause was rejected by one vote only.

Medical and Surgical Appliances.

Lord Ninian Crichton-Stuart, M.P., asked the Chancellor of the Exchequer in the House of Commons on Wednesday whether he could state whether there are industries or avocations in which there is particular da of particular kinds of accidents happening, or dise being contracted, for which the Insurance Committees allowed to supply any particular kinds of medical ins ments or necessities? The Chancellor replied that medical and surgical appliances which Insurance C mittees are empowered to supply as part of Med Benefit are those specified in the Second Schedule to Regulations. These are available in suitable cases for treatment of diseases or accidents, whether arising a result of the insured persons' employment or otherwis

Sale of Food and Drugs Acts.

In the House of Commons on Wednesday, May Sir P. Sassoon, M.P., introduced under the ten minu rule a Bill to consolidate, with amendments, the Food Drugs Acts, 1875 to 1899, the Margarine Act, 18 and the Butter and Margarine Act, 1907. The h baronet said the object of the Bill was to safeguard public against the sale of contaminated and impure fo and at the same time it sought to cover the whole field contamination and adulteration of articles for public c sumption. The laws dealing with this particular quest had been successfully concealed in a number of differ statutes and it was extremely difficult for a layman know what to do in the matter. Under the present the powers of the officers under the Sale of Food a Drugs Acts were restricted to taking samples for analy of articles which were exposed for sale, but the before the House proposed to give power to take th samples after the process of manufacture. It also p posed to set up a committee of fifteen of a representat character to advise the Local Government Board in reg to the regulations. The regulations in regard to question of warranty had also been revised. The was read a first time without opposition.

BUSINESS CHANGES.

Authenticated information for this section will be received by t Editor, and published, if not in the nature of advertisement.

Bovril, Ltd., are removing their Edinburgh office 19 and 20 Hill Place.

Mr. R. L. Whitehead (representing Mr. James Wilkinson) has removed to 27 Brook Street, Whitley B

Mr. W. Cariss, pharmacist, Linthorpe, Middlesbrou has opened a branch at 357 Linthorpe Road, Middl brough.

Mr. J. R. Challener, chemist and druggist, has tak over the business of Mr. R. Smith, chemist and drugg of 2 Market Street, St. Helens.

The business of the late Mr. R. F. Idenden, chem and druggist, 75 High Street, Barnstaple, has been pu chased by Mr. Frank E. Battershill, pharmacist.

Messrs. Charles Midgleys, Ltd., have opened a n branch drug-store in Exchange Street, Manchester, place of that in St. Ann's Square. The removal w necessitated by the extension of the Manchester Roy Exchange.

Paregoric Substituted.—A medical herbalist nam James Archer, 81 Oak Lane, Bradford, was on Thursda May 21, summoned at the local Police Court, under t Merchandise-marks Act, 1887, for selling a liquid to whi the false trade description "Paregoric Elixir" w applied, and also with applying a false trade descripti to the liquid. For the prosecution, it was stated that t purchase had been made at defendant's shop with a view proceeding against him for selling poisons, but up analysis of what he had sold as paregoric elixir it w proved that the mixture contained no opium; therefo these proceedings were taken. At first the defenda pleaded ignorance, but admitted knowledge that paregor elixir should contain opium. He now pleaded that he to the word "elixir" to be a general term which in effe was identical with "substitute," and labelled the mixtu "Paregoric Elixir Substitute." The Magistrate imposed fine of 20s., with 2*l.* costs.

Royal Institution.

A VERY instructive discourse was delivered on May 15 at the Royal Institution, Albemarle Street, London, W., by Professor Frederick Keeble on "Plant Animals: A Study in Symbiosis." This referred to *Convoluta roscoffensis* and *C. paradoxa*, two curious animal species that are found in abundance on the sea-shore of Brittany. They are the lowest kind of worm as disclosed by their primitive organism, although curious balancing properties and an ability to distinguish quite minute differences in light intensities make them really exceedingly complex. These *Convoluta* are ¼ to ⅛ in. in length, and in 1 c.c. there would be contained 28,000 individuals. They live in the fringe of the tide-water and ends of delicate seaweed, while at present they have only been found in Brittany, Jersey, and South Africa. *C. roscoffensis* is green in colour and *C. paradoxa* brown. The lecturer, who has studied these animals for some years on the coast of Brittany, then gave details of some remarkable properties which they possess. If placed on a tile which is half black and half white the *Convoluta* will soon be found to have moved on to the white portion of the tile. They have also a curious habit of moving periodically to the surface of the sand and going beneath it, this coincidence with the state of the tide. The singular thing is that if placed in a cup in the house and exposed to light they still exhibit this phenomena of periodicity, so that they form a veritable tide-table. Investigations have led the lecturer to conclude that light forms a toxin in the animal's body and so forces it to hide from light after three hours' exposure. The *Convoluta* only lay their eggs in the period of the summer high tides, and this again is connected with the longer period (eighteen hours) of darkness which they can enjoy owing to the state of the tide. The connection with plants was deduced from the fact that the animal uses the light to manufacture food-products from crude substances, and experiments showed that in a weak solution of uric acid *C. paradoxa* can be kept alive for three months. The source of the green colour in *C. roscoffensis* was found to be green algæ which infect the worm at an early period of its life. The lecturer, by carefully washing the animals and separating the discarded egg capsules, was able to keep the *C. roscoffensis* free from colour.

Among the exhibits in the library was a fine collection of colouring matters presented by the Badische Anilin- und Soda-Fabrik.

WILLS PROVEN.

MR. THOMAS JOHN HUGHES, chemist and druggist, The Pharmacy, Paris House, Penmaenmawr, who died on March 13, left estate valued at 2,232*l.* 12*s.* 11½*d.* gross, with net personalty 1,911*l.* 16*s.* 10½*d.*

MR. THOMAS MILLER, chemist and druggist, Bowden Villa, Garage Road, Wednesfield, who died on February 13, left estate of the gross value of 1,819*l.* 15*s.* 11*d.*, of which 159*l.* 12*s.* 3*d.* is net personalty.

MR. EDWARD BRAMWELL, Felsberg, Roby Road, Roby, near Liverpool, of Messrs. E. Bramwell & Son, Ltd., of Liverpool, chemical manufacturers, who died on February 27, left estate of the gross value of 26,746*l.* 5*s.* 1*d.*, of which 2,250*l.* 17*s.* 9*d.* is net personalty.

MR. ALFRED TAYLOR, chemist and druggist, 86 Woodfield Street, Morriston, Swansea, who died on March 15, left estate valued at 485*l.* gross, with net personalty 78*l.* 6*s.* 4*d.* Letters of administration, with the will annexed, have been granted to his father, Mr. Thos. Taylor.

MR. THOMAS TOOGOOD, 113 Durham Road, Cottenham Park, Wimbledon, who died on March 25, left estate of the gross value of 2,209*l.* 7*s.* 10*d.*, of which 2,155*l.* 16*s.* 6*d.* is net personalty. Probate of his will has been granted to his sons, Mr. William Leonard Toogood and Mr. Edward John Toogood.

MR. JOHN HERON, 28 East Bank, Stamford Hill, London, N., and 110 Fenchurch Street, E.C., brewing-chemist and consultant, who died on March 30, left estate valued for probate at 247*l.* 7*s.* He died intestate, and letters of administration of his property have been granted to his son, Mr. Harold Heron.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(*From the "Trade-marks Journal," May 13, 1914.*)

Device of star and crescent, with words "HEDWORTH BRAND," etc. ("Hedworth" disclaimed); for chemicals (1, 2, and 3). By the Hedworth Barium Co., Ltd., 1 St. Nicholas Buildings, Newcastle-upon-Tyne. 358,904/5/6.

"KILDEW"; for a mildew preventive (2). By the Belart Size and Chemical Co., Isthmus Road, Huddersfield. 359,432.

"BLOOMOIDS"; for a cut-flower preserver and fertiliser (2). By Providol G.m.b.H., 104 Alt-Moabit, Berlin. 360,066.

"CO-BO"; for a medicine (3). By H. B. Freeman, 203B Coatsworth Road, Gateshead-on-Tyne. 358,769.

"AGRAMEL"; for a laxative (3). By Southall Bros. & Barclay, Ltd., 19-21 Lower Priory, Birmingham. 358,787.

Device of three seamen, and words "THE 3 SALTS" ("3 Salts" disclaimed); for a medicine (3). By J. J. Forbes, 7 Scott Street, Perth. 358,917.

"MALORENE"; for medicinal chemicals (3). By E. MacSweeny, 91 Patrick Street, Cork. 359,551.

Oblong label, with words "THE BOMTON"; for all goods (3). By Bomford & Co., Ltd., 59 Lower Essex Street, Birmingham. 359,585.

Label device, with words "ROUX & Co." and monogram "R. & Co.," etc.; for all goods (3 and 48). By Roux & Co., 105 Gower Street, London, W.C. 359,625/6.

"JOINTINE" for a liniment (3). By Midland Drug Co., Hippodrome Chambers, Goldsmith Street, Nottingham. 359,871

"PROSTETOID," "RETROPITUITOL," and "MAMMOLUTEOID"; for medicinal chemicals (3). By British Organotherapy Co., Ltd., Carlton House, Lower Regent Street, London, S.W. 359,984/5, 360,167.

"ACEOF"; for spectacles, etc. (8). By Newbold & Bulford, 46-48 Goswell Road, London, E.C. 359,459.

Device, with word "KARNAK" ("Karnak" disclaimed); for photographic paper (39). By the Karnak Photographic Paper Co., 132 High Road, Ilford, London, E. 359,457.

"ESCO"; for infants' foods (42). By Maurice Smith & Co., Church Street, Kidderminster. 357,697.

"SAM WELLER," with sketch of same; for food-substances (42). By G. Pearson, 17 Angel Row, Nottingham. 357,158.

"TIGER BRAND," with picture of same; for glycerin (42). By Hodgson & Simpson, Ltd., 17 Highfield Street, Liverpool. 357,709.

Label device, with words "BOOTS LES FLEURS"; for perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 354,184.

Floral device, with word "CHINTAHATI"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, London, E. 355,054.

"FACTATIVE"; for a hair-colour restorer (48). By Charlotte Long, B. Hepworth, and W. Baker, 68 Victoria Street, London, S.W. 357,623.

"REUDEL"; for perfumery, etc. (48). By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 358,835.

"APALGINE"; for all goods (48). By the Synthetic Products Co., Ltd., 50 City Road, London. 359,538.

"ASLO"; for hair-lotion (48). By A. Slodden, 9 Chapel Road, Ladbroke Grove, Notting Hill, London, W. 360,123.

"ERASMIC"; for perfumery, etc. (48). By the Erasmic Co., Ltd., Bank Quay, Warrington. 360,144.

"NUNTRESCOL"; for all goods (48). By M. H. Nunn & Co., 1 Birklands Terrace, Shipley, Yorks. 360,191.

"HANDIESQUE" and "IDEALIQUE" ("Ideal" disclaimed); for feeding-bottles (50). By C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, London, E.C. 359,725/6.

(*From the "Trade-marks Journal," May 20, 1914.*)

"BANGO"; for a photographic glazing solution (1). By the Vanguard Manufacturing Co., 40 Broadway, Maidenhead. 359,116.

"TOKALON," for chemicals (3); "KALOSOL," for artificial mineral salts (3); "SALTRATES," for chemicals (3), and perfumery, etc. (48). By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 358,396/554, 360,175/6.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., May 21, 6.30 p.m.

THE general demand for chemicals and drugs remains slow, buying being mostly for current requirements. The fluctuations in prices are, however, more numerous than usual, including several of importance. The chief interest centres in refined camphor, which is dearer, both for Japanese slabs and tablets, German bells, and English flowers. Citric acid continues strong and dearer, and citrates have been advanced. Among drugs, Calabar beans are firmer; Russian cantharides remain in small supply; Cassia fistula is dearer; and sellers of Sudan acacia gums ask higher spot prices. Russian henbane is scarce. Musk and lycopodium are unchanged. Quillaia is dearer to come forward. Ergot is firmer to arrive, and balsam tolu lower. Buchu is likely to be dearer, judging from the statistical position. Insect-flowers firm and in seasonable demand. Opium is dearer at primary sources, and makers have advanced the price of morphine. Cod-liver oil is again dearer owing to the poor Finmarken results. Menthol is lower on spot and on arrival terms. The Sicilian essential oils are a buyer's market, especially lemon and bergamot. Star-anise and cassia oils are easier. Clove oil is easy; W.I. diluted lime oil firm and scarce. Products which have been reduced in value include formaldehyde, balsam tolu, celery oil, and ammonia sulphate.

Higher	Firmer	Easier	Lower
Camphor (Eng. ref. flowers and Germ. bells)	Calabar beans	Bergamot oil	Ammonia sulphate
Cassia fistula	Cassia oil (c.i.f.)	Cassia oil (spot)	Anise oil (Star) (c.i.f.)
Citrates	Ergot	Coconut oil	Balsam tolu
Citric acid	Gum senegal	Ginger (African)	Celery oil
Glucose	Lime oil (W.I. dist.)	Lemon oil (c.i.f.)	Formaldehyde
Gum acacia (Sudan) spot	Morphine	Mint oil (Jap. c.i.f.)	Menthol (spot and c.i.f.)
Mace (W.I.)	Tartaric acid (foreign)		Shellac
Opium			
Quillaia (c.i.f.)			
Starches pearl and powd.			
Turpentine			

Cablegram.

NEW YORK, May 20.—Business in drugs is fair. Opium is steady at $6.80 per lb. for druggists. Peppermint oil in tins is firmer at $4.25. Cartagena ipecacuanha is easier at $1.45. Menthol has advanced to $3.10. Senega is 2½c. cheaper at 62c. Copaiba balsam of U.S.P. grade is steady at 42c. Guarana is lower at $2.10 per lb., and Canada balsam is easier at $10.00 per American gallon.

London Markets.

ALMOND OIL.—Although prices of true oil were reduced 1*d.* last month, the meagre supplies of almonds arriving give a firmer tendency to the market. The English pressers' quotations are from 2*s.* 5*d.* to 2*s.* 6*d.*, according to quantity, and bleached 2*s.* 7*d.* per lb.

ALOES.—Curaçao in cases is offered at 46*s.* per cwt. c.i.f. for eapey quality.

ANISE OIL (STAR).—Quiet with small sales of "1 Ship" brand at 5*s.* 8*d.* on spot, and to arrive 4*s.* 6 c.i.f. is quoted for May-July shipment, being lower.

ANISEED sells slowly at our previous quotations—v 25*s.* to 27*s.* per cwt. for Russian and 35*s.* for Spanish.

BALSAM TOLU of direct import from New York "imported" is offered at 2*s.* per lb. c.i.f., being cheaper

BENZOIN.—The *Malta* has brought 74 cases fr Penang.

BERGAMOT OIL remains quiet, with agents offering from 16*s.* 5*d.* to 17*s.* per lb. c.i.f., according to brand ester content; spot price is from 18*s.* to 18*s.* 6*d.*

A Sicilian report, dated May 16, states that the offeri exceed the demand, and, although such offerings generally for small parcels only, still the reductions w are obtainable on same weaken the market.

BUCHU.—Judging from the statistical position, the c look is still for higher prices, principally on account of fact, which is beyond dispute, that the 1914 crop proved the smallest for very many years. From a car comparison of reports received from the Cape, the c clusion has been formed by those in a position to ju that the current season's output will not exceed 300 b (say 75,000 lb.) of short leaves, which compares w 133,000 lb. in 1913 and 223,000 lb. in 1912. Of these bales, about 200 have already been shipped, leaving o say, 100 to come forward. Thus the available stock the Cape and London which has to last consumers u February 1915 is in all about 150 bales.

CALABAR BEANS.—Small sales have been made in Li pool at 3¾*d.* per lb. Hamburg market is rather fir at 4¾*d.* per lb. c.i.f.

CAMPHOR (CRUDE).—China for May-June shipment offered at 157*s.* 6*d.* per cwt. c.i.f. Spot stocks are hausted. From second-hands a limited quantity of Japanese flowers is offered at 175*s.* on the spot.

CAMPHOR (REFINED).—The English refiners have vanced their price for flowers by 1*d.* per lb., the qu tion for 5-cwt. lots now being 1*s.* 10*d.*; bells remain changed at 1*s.* 11*d.* German bells have been advan several times, 1*s.* 10¾*d.* c.i.f. being quoted. The price of Japanese 2½lb. slabs is now 1*s.* 7¾*d.*, and scar 1-oz. tablets are quoted 1*s.* 8*d.*, and ¼-oz. 1*s.* 8½*d.* on s for July shipment ¼-oz. offer at 1*s.* 8⅞*d.* c.i.f., and slabs 1*s.* 6¾*d.* c.i.f. is quoted for January-March.

CANARY-SEED is steady at 92*s.* 6*d.* per qr. for com Morocco and 95*s.* for Turkish. Good Morocco is qu 116*s.* and Spanish 127*s.* 6*d.* to 135*s.* for good to fine bol

CANTHARIDES.—Russian, which continue in small sup are offered at 6*s.* 10*d.* per lb. net c.i.f.

CARAWAY-SEED continues firm at 27*s.* 6*d.* to 29*s.* 6*d.* cwt. for fair to good Dutch.

CASSIA FISTULA.—Sales of rather leanish Java ex auc have been made at slightly below 25*s.* per cwt., b dearer. Hamburg reports that East Indian is m higher, as supplies of this season's crop are entirely adequate to meet the demand. From 20*s.* to 21*s.* per c.i.f. is quoted, according to quantity.

CASSIA OIL.—Spot sellers of 80 to 85 per cent. quote 3*s.* 3*d.*, being easier; to arrive values are sligh firmer, 80 to 85 per cent. c.a. offering at 3*s.*, 75 to 80 cent. 2*s.* 10½*d.*, and 70 to 75 per cent. 2*s.* 3*d.* per c.i.f. terms.

CELERY OIL.—Seed having declined substantially of the oil is now cheaper at 39*s.* per lb. from English tillers.

CINCHONA.—The auction to be held at Amsterdam Friday, June 12, will consist of 544 cases and 1,235 ba weighing 93,927 kilos., pharmaceutical bark. The qu tity to be tendered for on Thursday, June 11, will 12,034 packages, weighing 1,032,762 kilos., manufactu bark. The first-hand stock at Amsterdam on May 20 sisted of 9,360 packages Government and 53,548 packa private bark. The shipments from Java during the f half of May amounted to 861,000 Amst. lb., aga 513,000 Amst. lb. last year and 402,000 Amst. lb. in 19

CITRATES.—An advance of 1*d.* per lb. is announced the makers, who quote ferri et ammon. citras and

po sium citrate at 2*s.* 6*d.* and sodium citrate at 2*s.* 8*d.*, 28 . being 1*d.* per lb. less.

CRIC ACID is a firm market at from 2*s.* 4½*d.* to 2*s.* 5*d.*, Jul July delivery of foreign offering at 2*s.* 4¾*d.* to 2*s.* *d.* c.i.f.

OVE OIL is easy, English distillers quoting 3*s.* 9*d.* for 2 W. qt. lots.

CA-LEAVES.—At Amsterdam on Friday, June 12, 2,702 pac ges, weighing 147,909 kilos. Java leaf, will be offered at ction.

COA-BUTTER.—Quiet, with spot sellers at 1*s.* 4¼*d.* per b.

DEINE.—As yet there is no change, but in view of the risc n opium, one in codeine may follow. 10*s.* 10*d.* is the bas price for pure crystals.

D-LIVER OIL.—The Finmarken cod-fishing (we learn fro our Bergen correspondent, under date of May 18) is stil ar from being satisfactory. The reports are full of con aints of stormy weather, lack of bait, absence of fish, inv on of seal, etc. The total output of the past week's fish g is, however, in spite of all this, a little better than tha of the corresponding week of 1913, and the official rep t now gives the following totals of all the Norwegian cod sheries up to May 16 :

	1912	1913	1914
Cat of cod (millions) ...	82.0	59.3	66 5
Yie of c.l.o. (hect.) ...	61,300	37.100	49,350
Yie of liver for raw oils (hect.)	21,750	7,350	9,250

The market tendency is very firm, and most of holders hav withdrawn their goods, asking up to 73*s.* 6*d.* per bar c.i.f. for prime non-congealing oil, but up to the pre t buyers have refused to pay above 69*s.* 6*d.* c.i.f. A c responding advance has occurred in London, agents for inest brands quoting from 72*s.* 6*d.* to 73*s.* c.i.f., mos without engagement.

A rding to cabled statistics received from Norway on Ma 20, the catch, the quantity of livers set aside for natu l oils, and the output of cod-liver oil up to May 16, as c pared with the corresponding date of 1913, was as follows :

	Catch of cod	Livers for raw oil (hect.)	Yield of c.l.o. (hect.)
Finmarken, 1914 ...	8,870,000 ...	1,359 ...	6 490
do. 1913 ...	18,062,000 ...	1,343 ...	11,474
Whole country, 1914 ..	66.800,000 ...	9.259 ...	49 345
do. 1913...	59,200,000 ...	7,334 ...	37,006

Alth gh the fishing is now far advanced, there has been very ittle improvement in the Finmarken district, where the ficiency this week is about 5,000 hectolitres in comparin with last year's figures. Cable just to hand, in resp se to an offer for 100 barrels finest 1914 cod-liver oil, com at 72*s.* 6*d.* per barrel, c.i.f. The market is therefore extr ely firm.

CIANDER-SEED.—Small sales of good Morocco are rep ed at 16*s.*, and of wormy at 10*s.* per cwt.

CUMIN-SEED is firm, but slow of sale. Slightly wormy Mor co is offering at 28*s.* per cwt.

DRAGON'S-BLOOD.—The *Arcadia* from Penang has bro ht 26 cases. Small sales of reboiled pickings ex auc n have been made at 14*l.* 10*s.* per cwt.

ERGOT is coming forward very sparingly from Russia. A f ly good business for June-July shipment has been don on an advancing market up to 1*s.* 8½*d.* c.i.f., and mor money is now asked. On the spot 1*s.* 10*d.* to 1*s.* 11*d.* is n wanted for sound Russian, and 2*s.* to 2*s.* 1*d.* for Spa h.

FENUGREEK-SEED is quiet at 9*s.* to 9*s.* 6*d.* per cwt. for Mor co on the spot.

FORMALDEHYDE has been reduced from 3*l.* to 4*l.* per ton, owi to the advent of an outside maker : 31*l.* per ton is quot for the usual 40 per cent. in carboys.

GINGER.—Easier prices have been accepted for Sierra Leon the sales in Liverpool including May-June shipment at 1 3*d.* to 16*s.* per cwt. transit terms.

GLUCOSE has advanced 6*d.* per cwt. to 11*s.* 6*d.* to 11*s.* *d.* for the usual brands of American liquid, as to qua ty. *Starches* are 1½*d.* dearer at 10*s.* 1½*d.* for pearl and 10*s.* 4½*d.* for powdered. Maize starch-powder is also dearer at 10*s.* 6*d.* ex wharf.

GRAINS OF PARADISE have been selling on the basis of 62*s.* 6*d.* per cwt. c.i.f.

GUM ACACIA.—Sellers of fair half-hard Sudan sorts ask the higher price of 35*s.* on spot, and to arrive from 32*s.* 6*d.* to 34*s.* is quoted, Khartoum to London, c.i.f. terms. East Indian gums are very quiet, No. 1 Ghatti offering at 26*s.* 6*d.* and No. 2 at 17*s.* per cwt. c.i.f. terms. Senegal is rather firmer, with sales of the usual quality Bas de Fleuve at 30*s.* per cwt. f.o.b. Bordeaux, and parcels arriving at that port are being quickly bought up.

HENBANE.—Russian is scarce, with an offer at 27*s.* 6*d.* per cwt. c.i.f.

HONEY.—Chilian is reported in fair demand in Liverpool, offering to arrive at 20*s.* 6*d.* to 21*s.* per cwt., c.i.f. terms.

INSECT FLOWERS have met with a fair seasonable demand. Closed Dalmatian offer at 120*s.* per cwt. c.i.f.

IPECACUANHA.—Quiet, with fair Matto Grosse offering at 8*s.* 3*d.* Five bales of Minas have arrived at the warehouse.

JALAP.—Vera Cruz, testing 15 to 16 per cent., is quoted from Hamburg at 1*s.* 3½*d.*, and 6 to 7 per cent. at 6⅝*d.* per lb. c.i.f. On the spot (London) from 8*d.* to 1*s.* 3*d.* is quoted as to test.

JUNIPER-BERRY OIL.—English distilled from selected berries is offered at 21*s.* per lb. The foreign product is cheaper, 3*s.* 1*d.* net being quoted from 28-lb. lots of best quality. Juniper *wood* oil is offered at 1*s.* 6*d.* net.

LEMON-JUICE.—English squeezed is in good demand at from 1*s.* 9*d.* to 2*s.* per gal.

LEMON OIL.—The recent earthquake in Sicily has not affected the lemon-oil market; indeed, several advices and private letters to hand this week do not even refer to the upheaval. Meanwhile, the tone continues flat, and prices have an easier tendency, agents offering to arrive at from 6*s.* 3*d.* to 6*s.* 8*d.* c.i.f.; spot prices are from 6*s.* 9*d.* to 7*s.*

A Sicilian report, dated May 16, states that "a complete absence of business has again been the most prominent feature this week, and has brought a further uneasiness in the position; in fact, there being no orders to cover, some needy growers seemed more inclined to consider bids in order to rid themselves of part of the stock they had on hand. The large growers, however, continue to keep very reserved, and are holding meetings to consider the position, the absence of business seeming rather unnatural to them."

LIME OIL.—Holders of distilled West Indian ask 3*s.* per lb., business having been done at 2*s.* 11*d.*, and hand-pressed is 9*s.* to 9*s.* 6*d.*

LINSEED is slow of sale at 50*s.* per qr. for fine quality.

LYCOPODIUM.—Russian of treble-sifted quality is unaltered at 1*s.* 6*d.* c.i.f. for at least five-case lots, and single cases ⅛*d.* more.

MENTHOL has been quiet, with a lower tendency on spot and to arrive, sellers of May-June shipment quoting 10*s.* 3*d.* per lb., c.i.f. in the early part of the week, but on Wednesday there were offers of stuff afloat at 9*s.* 6*d.*, and May-June and June-July shipment at 9*s.* 9*d.* c.i.f. for Kobayashi-Suzuki. The spot price is 10*s.* 6*d.* for the first-named brand. The arrivals per *Malta* from Japan comprise 25 cases menthol and 77 cases oil.

MINT OIL is quiet with an easier tendency, to arrive May-June shipment offering at 3*s.* 10*d.* per lb c.i.f. for Kobayashi. The spot price of this brand is 4*s.* 2*d.* American tin oil remains unchanged and quiet at from 17*s.* 6*d.* to 18*s.*, but advices from the other side indicate that little is being offered. H.G.H. is unchanged at last week's advance to 20*s.* 9*d.* to 21*s.*, London terms.

MORPHINE.—Makers, owing to the advance in opium, are now quoting 8*s.* 6*d.* per oz. for hydrochloride powder, an advance of fully 3*d.*

MUSK.—Tonquin pod is unchanged, good Pile I. thin blue skin offering at 70*s.* and well-trimmed old style at 60*s.* per oz. Cabardine with more inquiry, holders of Russian ask 18*s.* per oz. for medium quality, quantity of which is limited.

Olibanum.—Retail sales of good fair drop have been made at 42*s.* and siftings of good quality at 20*s.* per cwt.

Opium is much dearer at primary sources owing to native speculation and American buying, the lengthy period of drought having encouraged operations. A good business has been done (some 200 cases) at up to 15*s.* 6*d.* c.i.f. for 11½-per-cent.; on the spot sellers are now holding off the market, sales being retail only. Stocks of soft shipping at primary sources are in very small compass; on the spot values are from 18*s.* to 20*s.*, and Malatia 17*s.* A steady business is being done in Persian for export at unchanged prices.

A Smyrna correspondent writes on May 8 that the sales this week amount to 131 cases druggists' manufacturing qualities at from 13*s.* to 15*s.* 6*d.*, but, although the interior reports favourably about the crop, holders are not disposed to make concessions, and thus the price for mixed parcels of 11-per-cent. is still maintained at 14*s.* to 14*s.* 3*d.* The present estimate of the whole Turkey crop is reckoned to be 7,000 to 7,500 cases, but the weather conditions during this month will either reduce or augment the yield. We expect the first arrivals of new opium will appear on our market about the first week in June. The arrivals in Smyrna are 4,595 cases, against 2,384 at same date last year.

A Constantinople correspondent writes on May 16 that the demand continues, but owing to the lack of spot stuff the prices are maintained, and it is difficult to conclude business, both on account of the pretensions of holders and because of the high prices paid in Smyrna. The crop outlook is reported to be still good, and beneficial rains have fallen in some districts of the Interior. The sales of the week have been 12 cases druggists' at from ptrs. 210 to 220 and 13 cases "softs" at from ptrs. 254 to 262.50 per oke. The arrivals in Constantinople amount to 3,412 cases, against 2,500, and the stock is 390, against 515. The arrivals this season consist of 1,858 druggists (1,300), 1,232 "softs" (862), and 322 Malatia (338). The stock consists of 309 druggists (312), 58 "softs" (125), and 23 Malatia (78). The figures in parentheses represent the 1913 figures.

A Smyrna correspondent writes on May 14 that sales of 130 cases were recorded last week at easier prices, but the market recovered and substantial sales were made. Owing to news of drought from the interior received on May 14, the market is stronger, and some speculators require an advance of 4*d.*, but no business has yet resulted.

A Smyrna correspondent, writing on May 15, states that the sales this week on our market amount to 104 cases at from 13*s.* to 15*s.* 6*d.*, as to quality. Owing, therefore, to this continual large demand, sellers still maintain the position, and very likely will do so until the new crop is all harvested. The arrivals are 4,604 cases, against 2,393 at same date last year.

Orange Oil.—Sicilian continues very quiet, with sweet offering from 8*s.* to 8*s.* 6*d.* per lb. c.i.f. for prompt shipment.

Orange-peel.—English is likely to be dearer this season at from 1*s.* 6*d.* to 1*s.* 8*d.* English *Lemon-peel* is offered at from 1*s.* 9*d.* to 1*s.* 10*d.*

Otto of Rose.—In regard to Anatolian otto, we understand that information has been received from various districts that the cultivators are rather uneasy owing to continued dry weather. Rain just now, when the growers are about to begin cutting the roses, would be very helpful as to quantity and quality. In London the price of finest virgin Anatolian otto from agents is from 45*s.* to 50*s.* per Eng. oz.

Quillaia is firmer, Liverpool offering for shipment at 35*l.* per ton c.i.f. A Hamburg advice states that quotations from Chile are much higher, and for small lots only, 43*s.* 6*d.* per cwt. c.i.f. being quoted for at least 5-cwt. lots.

Quinine.—There has recently been some quiet buying from second-hands on the part of an operator; quotations of German sulphate in bulk are unchanged at from 1*s.* 0¼*d.* to 1*s.* 0½*d.* for the usual brands, makers quoting 1*s.* 1*d.*

At the auction held at Amsterdam on May 15, 1,417½ kilos. Ed. II. were bought in at fl.20.75 per kilo. The next auction will be held on June 19, when a similar quantity will be offered.

Rhubarb.—Sales ex last week's auction include medium round Shensi with three-quarters pinky fracture at 4*s.* 3*d.*, and small to medium flat at 3*s.*; also medium round Canton with three-quarters good pinky fracture at 3*s.* 3*d.*, and medium-size flat at 3*s.* per lb.

Saffron is very firm at from 42*s.* to 44*s.* per lb. net, to quality.

Sarsaparilla.—The arrivals comprise nine bales of Gr Jamaica and nine bales of Red Native.

Senega.—The spot price is still 2*s.* 9*d.* net. New Yo cables an easier market.

Serpentary.—Demand has been quite retail for lengthy period; 1*s.* 9*d.* net on spot will buy.

Shellac is lower, the spot value of fair TN Orange bei 65*s.* to 66*s.*, and free AC Garnet 67*s.*; to arrive 65*s.* c.i is quoted for May-July shipment of TN Orange, a 63*s.* 6*d.* c.i.f. for October-December shipment of A Garnet. Futures are lower, sales including May 66*s.* 6 and August 68*s.* to 64*s.* 6*d.*

Soda Nitrate.—A report having been circulated in r gard to the centralisation of sales the Chilian Nitra Committee have issued the following official statemen "As nothing has so far been officially stated concerni the state or result of the negotiations actually going for centralisation, it is evident that all that has be published about it must be considered without any found tion, and as inserted with a purpose." The London sp price is 10*s.* 7½*d.* for ordinary and 11*s.* for refined, Live pool quoting 10*s.* 3*d.* and 10*s.* 6*d.* per cwt.

Spices.—At auction *Ginger* was quiet; of Japane 170 bags offered and 100 sold at from 19*s.* 6*d.* for sm (one lot 20*s.*) without reserve; 770 packages Cochin a Calicut were brought in, comprising slightly wormy u sorted native cut in cases at 45*s.*; washed rough Coch at 27*s.*; brown Calicut rough, 26*s.* to 30*s.*, and D rou 22*s.* *Cloves* have been quiet, fair Zanzibar on sp offering at 5¾*d.*; for June/August delivery 5⅞*d.* has be paid and sellers; for May/July and June/August shi ment sellers quote 5 9/16*d.* c.i.f. d.w. West Indian *Ma* met with good competition, red descriptions being 1 dearer; 71 packages sold, including fair and pale 2*s.* 1 to 2*s.* 2*d.*, red 1*s.* 10*d.* to 2*s.*, and broken 1*s.* 3*d.* 1*s.* 8*d.*; 12 cases Java sold at 2*s.* 5*d.* for bold heavy re 2*s.* for red broken, and 1*s.* 7*d.* to 1*s.* 10*d.* for damage 81 bales East Indian *Capsicums* were bought in at 35 for fair large stalky. *Cinnamon* quiet, 25 bags Ceyl quillings being bought in at 8½*d.* and 93 ba chips at 2⅝*d.*; of *Cassia lignea* 50 boxes fair select were bought in at 40*s.*; 100 boxes loose at 40*s.*, and 1 bales broken at 30*s.* *Nutmegs* steady for West India 297 packages being disposed of; of *Pepper* at auctio 55 bags good Tellicherry were bought in at 5⅛ Privately, spot demand is slow with sellers of fair Sing pore at 4 15/16*d.*; to arrive sellers of fair Singapore f June/August shipment quote 4 31/32*d.* and August/Octob 4⅝*d.* Lampong for August/October shipment has bee sold at 4 11/32*d.*; at auction 8 cases Tellicherry sold, con prising fair at 10¼*d.*, good 11¼*d.*, fine 1*s.* 0¼*d.*, an superior washed 1*s.* 2*d.* Privately, the spot demand quiet, with sellers of fair Singapore at 8⅝*d.* and fa Muntok at 8 15/16*d.*; May/June shipment of Singapore t arrive has sellers at 8 5/16*d.*, and 8⅝*d.* c.i.f. has been pai for Aguust/October shipment of Muntok.

Sulphur.—Owing to the hot weather there has bee a sudden demand, leading to a temporary scarcity on spo Sicilian flowers selling at from 6*l.* 17*s.* 6*d.* to 7*l.* per t ex wharf, and roll 5*s.* less. In Liverpool, English flowe and roll for shipment are quoted at 5*l.* 17*s.* 6*d.* a 5*l.* 15*s.* per ton c. and f. terms.

Tartaric Acid is very firm at 1*s.* 1½*d.* for English an 1*s.* 0¾*d.* to 1*s.* 0⅞*d.* for foreign

Thyme Oil.—Owing to a lengthy period of drought i Spain the outlook for new thyme oil which is now bein distilled is poor, and as there is a number of orders wai ing to be fulfilled higher prices are anticipated.

Thymol.—Chemically pure is offered at from 6*s.* 6*d.* t 6*s.* 9*d.* per lb. c.i.f. for prompt shipment from the Co tinent; forward shipment being slightly below the prices.

Turpentine has advanced over 1*s.* 6*d.* on a very acti market, from 32*s.* to 33*s.* 6*d.* per cwt. being paid f American on the spot, market closing strong.

Wax, Bees'.—In Liverpool various descriptions continue firm and scarce, the auction sales including nine packages Gambia at 8*l.* 10*s.* per cwt.

Wax, Carnauba.—Quiet, with waxy grey offering at about 132*s.* 6*d.* and chalky at 141*s.* per cwt. on spot.

Manchester Chemical Market.

May 19.

There was an average attendance on the chemical side of the Exchange, and, notwithstanding pessimistic reports in certain quarters, we have reason to think, from inquiries, that there is a fair business passing in heavy chemicals, both on home and export account. Bleaching-powder is in better inquiry at from 5*l.* 7*s.* 6*d.* to 5*l.* 12*s.* 6*d.* per ton for soft-wood casks, on rails. The seasonal demand for sulphate of copper is drawing rapidly to its close. The raw metal shows no signs of improvement, and with the present position of affairs in Mexico the outlook is full of uncertainty; prompt prices rule in buyers' favour at from 22*l.* to 22*l.* 5*s.* per ton for best brands, delivered Manchester. Acetate of lime shows little change. Wood-naphthas are generally steady; the colourless is quoted 2*s.* 5*d.*, but miscible is in sellers' favour at 2*s.* 7*d.* per gal. Chloride of calcium quiet at 2*l.* 5*s.* 6*d.* to 2*l.* 12*s.* 6*d.* per ton, in drums, on rails. Crystal carbonate in better inquiry at 6*l.* 5*s.* per ton, in 2-cwt. bags, on rails. Borax in fair demand. Potashes quiet. White powdered arsenic is slow at from 13*l.* 10*s.* to 14*l.* per ton. Coal-tar products are exceedingly quiet. Pitch is quoted 35*s.* to 36*s.* per ton, but buyers do not respond, except at about 1*s.* lower. It is possible that the demand for roofing may turn out better than last year, and results may be more satisfactory to makers. Benzols and carbolic acid dull all round. Sulphate of ammonia is lower, at from 11*l.* 7*s.* 6*d.* to 11*l.* 12*s.* 6*d.* per ton, on rails, Manchester.

Sicilian Essential Oils.

Reviewing the market conditions during the past four weeks, a report from Catania, dated May 13, states that since December the price of bergamot oil has declined about 23 per cent., lemon oil about 33 per cent., and sweet-orange oil about 30 per cent. The reasons for the great decline in lemon are, firstly, the greater outturn of the 1914 crop, and, secondly, the fact that the market has been regulated exclusively by export demand, whereas last year "shorts" and speculation contributed to drive up the price to highest record heights. As regards new crop lemon oil, the first blossoming of the trees is very fine, but growers have some apprehension that the trees have been weakened by the unprecedented drought in Sicily since last September, and may not hold all the lemons. The next blossoming of the winter lemons is during May and June, and crop prospects can be reported upon with some reliability in July only. There are some speculative sellers of non-oil futures. The reasons for the decline in bergamot and sweet-orange oils are that last year's high prices appear to have checked consumption, and the demand has therefore been slow. The blossoming of both the bergamot and orange trees is fine, and this probably increases the offerings of prompt oils. Bitter-orange oil has declined in sympathy with that of sweet, and transactions have been small. The lemon-oil situation is dealt with in the May issue of the "Perfumery Record," in the course of which reference is made to the support accorded to the market by the Sicilian Growers' Co-operative Society, who have strengthened weak sellers by money advances on oil on the basis of recently ruling prices. It is inferred that the present range of prices (now 6*s.* 8*d.* to 7*s.* 6*d.* c.i.f.) will be the lowest level to which, in the opinion of the Growers' Association, they should allow the market to descend. The "P.R." believes that their action may have the effect of causing a halt in the curve of depression, but it can of itself only be temporary. Our contemporary concludes with the remarks: "Whatever expedient growers and holders may resort to, it seems to us that an uplift in prices this campaign is more than usually dependent on future climatic conditions in Europe and America. Given good summer weather, consumption would bound up, for consumers' stocks generally are low through their 'holding off' policy and unless we have a larger experience of summer temperatures buying is likely to continue on the restricted scale of immediate need."

Mr. Robert Blackie, Shen Works, Tower Bridge Road, London, S.E., makes a feature this week of a new and effective package for his "Yena" Powder de Riz (Shen).

Messrs. J. W. Drysdale & Sons, 16 Fish Street Hill, London, E.C., have been appointed selling agents for the Süssholz Handels-Gesellschaft m.b.H. (Liquorice Trading Co., Ltd.), Hamburg and Uralsk (Russia), exclusively engaged in the manufacture, collection, and shipment of liquorice-juice and liquorice-root of all descriptions.

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with.

Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Insurance Payments.

Sir,—I am quite in sympathy with the letter signed "Leeds Chemist." Surely it is time that we had definite information from some reliable source as to when we shall receive payment of last year's balance of accounts, also a further payment on accounts presented for the quarter ended April 12? Our wholesale houses are not content with 50 per cent. of their accounts, and the injustice of these deductions is pressing very heavily on those having accounts to meet for drugs already supplied to the Insurance Committee.

Yours faithfully,
Pay Up. (228/34.)

Sir,—In rendering Insurance accounts I have got one piece of information which may be of use to others—viz., that the Post Office will give a receipt for any letter or packet handed in for the charge of a halfpenny. This does not render them liable in any way as registration does, but is sufficient evidence that a letter has been posted. Another help to chemists, now we have to send in triplicate accounts with the numbers at so much each, is the Model Ready Reckoner, published by Warne & Co. I think the price is 1*s.* It gives hundreds of tables from 1 to 3,000 of prices from $\frac{1}{16}$*d.* to 19*s.* 6*d.* All one has to do is to look up any number at any price and there is the amount.

Yours faithfully,
Wandsworth, S.W. J. W. Wood.

Sir,—I feel that I cannot refrain any longer from joining in the bitter cry of dissatisfaction now being voiced by those chemists suffering from this intolerable discounting of accounts. Hitherto the chemists of South Shields have suffered dumbly and patiently, but things are going from bad to worse. This month they have received only 62 per cent. of their accounts. I notice in your last issue that a Leeds chemist, after stating that a most serious state of affairs exists, remarks that the only way to remedy the matter is for the whole community of chemists to organise immediately and endeavour to get a most intolerable and iniquitous hardship redressed. I notice, too, that Mr. W. Benn is reported to have stated in the House of Commons, in reply to a suggestion of Mr. Cassel that much hardship is being experienced by chemists, that he (Mr. Benn) "thought that was a statement that was not substantially true." Is it not time, Sir, that we impressed upon Mr. Benn, Mr. Lloyd George, and others that the statement *is* true—bitterly true, as we know to our cost? "Xrayser" makes some sensible suggestions in last week's issue. Let them be carried out at once, and so endeavour to end a most intolerable state of affairs. The glaring injustice to the chemist is so obvious that I cannot but think that if the true facts were once brought to the notice of the right persons, something would be done. But, as "Xrayser" says, we can do nothing individually: it must be a collective effort if any impression is to be made.

Yours faithfully,
South Shields Chemist. (77/52.)

Sir,—"Leeds Chemist" asks for opinions on how to get paid, and gives his own payments. He is well off. How would he like to be in Bradford?

First year, third quarter, 90 per cent.

First year, fourth quarter, 50 per cent. (paid end of February).

Nothing since.

The Act is national, the Tariff should be national; the payments should be from one fund in London, and made promptly, not on the "wait and see" principle. Check scrips locally, and render accounts within a fortnight of quarter ending, and pay them in the next fortnight, a month in all. I have two Tariffs to contend with here; one says, pills 3*d*. doz., 2 doz. 6*d*., 3 doz. 9*d*.; the other says, pills 2*d*. doz., 2 doz. 3½*d*., 3 doz. 5½*d*.—a difference of 4½*d*. on 3 doz. pills. What becomes of all the interest on the Drug Fund account? It is somewhere, and we are entitled to it.

Bradford Chemist. (229/56.)

Sir,—I read with interest the statement about the expenses of the National Insurance dispensing, and my total is about the 400*l*. mentioned by one or two of your correspondents, but I cannot quite agree with their view of the labour cost. I find it necessary to keep a dispenser to do the work and a girl to take in and give out the prescriptions. I only do Wednesday evening and the odd ones that drop in between-times and Sunday. I fancy the amount of relief that the dispenser and the girl give me outside their National Insurance work is about balanced by the time it takes me to price the scripts (I have only 6*d*. correction in over 200*l*.) and do the relief duties. I have as a dispenser a man who has been employed more than three years in dispensing under medical supervision, but is not used to counter-work, and his wages, with the girl's and their insurance, come to 98*l*. per annum. Fire and light run away with quite another 8*l*. per annum, and there is a considerable number of sundries that I think might be justly added to one's expenses. Things run fairly nicely in this district, and mixtures are in most cases ℥vj., ℥viij., or ℥xij., ℥ss. or ℥j., with a fair amount of malt and oil, etc., but it does drop one's counter-prescribing and the sale of popular lines. Undoubtedly the man whose bill comes to 30*l*. a quarter is the man who reaps the benefit. Between 60*l*. and 90*l*. there is most likely a loss unless he has been overstaffed before; above that sum there is, I believe, a profit, but there are few accounts in this county above 450*l*. per annum. The work is principally between 9.30 and 11.30 A.M. and 6.30 and 8.30 P.M., and there is a tendency to grumble if a patient has to wait more than thirty minutes.

Yours faithfully,

A Kentish Chemist. (227/43.)

Sir,—I have been told repeatedly that I am "the only man who grumbles under the Insurance Act" and its anomalies. I rejoice, at length, to know that I have company. Last autumn I wrote you—shall I say with some sort of prophetic vision?—that "I was getting weary of incessant work, with payment on the instalment plan, with deductions." "Xrayser" counselled me "not to quarrel with my bread and cheese"; events have marched since then. Even "Xrayser," judging by his recent observations, has modified his views. Now, although I have never wittingly "quarrelled with my feed of hay because it is not clover," I am told that to complain or grumble about the conditions under which I earn my bread and cheese (*nolens, volens*) is "not only lawful, but also expedient." For some time since I have made many inquiries in all parts of the country and could cite you crowds of cases bearing on the injustice to the craft, some of them heartrending in the extreme. Especially is it quite patent that the delay in payment of accounts is calculated to seriously jeopardise the credit of the average pharmacist. These things are known, wholly or in part, (1) to the local secretaries, (2) to the Secretary of the Pharmaceutical Society, (3) to the Chancellor of the Exchequer. And what is the result? All counsel "Patience." Is it possible that this cry of "Patience," instigated by the leading lights up and down the country, is, in reality, nothing but a mirage which has already landed many a worthy man who want to be honest and pay his just debts among the breakers? Men who are well placed, including Cabinet Ministers, "passing rich" on 5,000*l*. a year, appear to be indifferent to the claims of the "rank and file" of our hard working craft. When signing our last contract I inserted an emphatic protest in margin, relating to discount clause, that "in my opinion it was both illegal and immoral." It surprises me that a presumably intelligent and educated body of men should accept a condition of affairs which would not be tolerated for one moment by the average community of labourers. "Desperate diseases require desperate remedies," and the remedy in this case is undoubtedly an intimation to "the powers that be" that unless all accounts are paid within seven days there will be no more dispensing. Have the chemists the courage to do it? As in the autumn I offer now one or two guineas per annum towards the formation and support (even if it means "pawning my shirt") of an association of pharmacists capable of knowing their requirements and determined to uphold their sense of dignity. The idea of the average retail chemist being expected and compelled to give the "richest Government in the world" several months' extended credit is surely worthy of "Punch"? Is "anything" good enough for the chemist?—Yours faithfully,

King's Norton. F. H. Bloomfield.

Liability in Respect to Sheep-dipping.

Sir,—As the sheep-dipping season is now upon us, and as several chemists send out machines for dipping sheep, the question as to who is liable for any case of accidental poisoning or injury to the sheep immersed is of interest and therefore I venture to relate my experience in this matter.

For the last twelve years I have each summer and winter dipped in arsenical and carbolic dips 15,000 to 20,000 sheep, using the arsenical form in summer and the carbolic in winter. The formula for my arsenical dip, which has been used for thirty years by my predecessor and myself, is as follows:

Powdered white arsenic	50 lb.
Caustic soda	4 lb.
Washing-soda	20 lb.
Soft soap	35 lb.
Flowers of sulphur	30 lb.
Water to make	25 gals.

Dissolve the arsenic by boiling in the solution of the alkalies, add the soft soap, and finally the sulphur.

For dipping-purposes mix 1 gal. of the solution with 59 gals. of water, and immerse each sheep for a minute in the bath.

I have a very experienced and capable man who goes out with the machine, and for years no accident has occurred, the dip having given perfect satisfaction as an insecticide to kill fags, and red lice, and for warding off attacks of the maggot-fly; but last year, on a showery day, a bad patch was struck, a flock of 100 sheep being damaged, a claim of 5*s*. per head—25*l*. in all—being made on me, although none of the sheep died, but the animals were scalded with the caustic dip on and under the legs and the wool on these parts came off, and wounds and sores were caused which were tiresome to heal. Some of the sheep were scarcely hurt at all, while others were badly cauterised; and a singular thing about it was that the next flock of sheep which went into the same bath were not scalded or irritated in any way. My idea why the first lot were affected and not the second was that possibly the first lot were hurried, and came hot to the bath, whereas the second lot may have been brought more leisurely; however, the farmer claimed 25*l*. damages. I appealed to the C.D.A., but they would not admit responsibility on their funds, saying sheep-dipping was outside of their liabilities; and when I consulted a good solicitor, he advised me to pay the farmer's claim as he said judgment was bound to go against me because I could not prove that I had used excessive care, although it was admitted that I had used all ordinary precautions.

Now, as I only charge 2*s*. per score for dipping (and in some districts I hear competition is bringing this price

down to 1*s.* 8*d.* per score) I should be glad if you can put this experience in your paper, and invite the ideas and criticisms of other agricultural chemists who do a sheep-dipping trade. I am told my solution is not exceptional in its effect, and that the largely advertised arsenical dips occasionally, in showery weather, have a similar irritating result, and of course it is easy to understand that a solution composed of such a powerful caustic as arsenic may, given unfavourable weather conditions, be violent in its action; but what I want particularly to point out is that the liability for the damages falls on the person who undertakes the dipping. I would urge chemists in these circumstances not to be browbeaten, or bring their charges too low, as the risks are really serious when such violent poisons are being handled. I may explain that I continued to use the same dip for the remainder of the season, and no further untoward effect occurred. The advantage of the formula quoted is that, being in a liquid form, it is easily handled, the bath is quickly prepared, and it is inexpensive. With the powder dips the cost is higher, and the delay and trouble to make a solution take up so much time that the dipper gets little profit for his trouble and risk. If anyone can suggest an improved formula or explain how a less caustic arsenical dip can be made, or tell of a solution, nicotine or other, which will be as effective and as permanent as arsenic, he will confer a great boon on every agricultural chemist in the country. I am well aware of the lime-and-sulphur solution, which is non-poisonous and an excellent cure for scab, but it has a harsh effect on the wool, and is very much disliked by the farmers in this country. The carbolic dips will not do in summer, as, although excellent as an insecticide, the effect soon passes off, and then they appear to attract, instead of to deter, attacks of the maggot-fly.—I am, etc.,

AGRICOLA. (230/36.)

Bookkeeping for Chemists.

Sir,—"Xrayser II." is correct in his surmise that I strongly advocate a knowledge of bookkeeping for those who will be expected to "keep books" in after-years. The lack of this knowledge has been the downfall of many a pharmacist who, in other respects, has been a capable man. It has been my duty, both on my own account and for the purpose of advice to old assistants and other friends, to inspect businesses with a view to purchase. The absence of proper books has been the rule, their presence the exception. Now, I would not for a moment underestimate the value of scientific knowledge; at the same time, I believe that it is just as necessary for a young man to know on which side of the ledger he should place his purchases of, for instance, citric acid as it is for him to know that its chemical name is hydroxypropanetricarboxylic acid. Surely it should be no more necessary to require an Act of Parliament to attain this object than it was to expunge Latin from the "Preliminary"? Yours faithfully,

CHARLES W. BRUMWELL.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

Appreciations.

"It is well-nigh twenty years since I tendered my first subscription to *C. & D.*, and I always anxiously await Friday's post.—(200/64.)

"I would not be without your valuable paper for anything. A chemist without the *C. & D.* is like a ship without a rudder."—(223/37.)

On one of our Corner for Students' prizemen (218/42), in acknowledging his awards, writes: "I realise I have won a distinction of no mean magnitude, having regard to the vital functions discharged by THE CHEMIST AND DRUGGIST in the 'metabolism' of pharmacy. Thanks to the knowledge I have gained through studying the information and criticisms given regarding many typical mixtures of salts, I shall enter for the Minor feeling fortified against collapse in at least one portion of the examination."

"I have been a subscriber to the *C. & D.* for nearly thirty years and am perhaps the only one in this country who can refer to any number during that period. Although I have not been connected with pharmacy for eighteen years, I have still a great affection for the journal, as I have been benefited to the extent of hundreds of pounds through the perusal of two of its articles some years ago. I naturally feel grateful, and continue to look through every number on its arrival."—*A New Zealand Subscriber* (65/13).

A Correction.

In Jay Mack's letter, on p. 62 of our last issue, at the bottom of column, 14*l.* 17*s.* 6*d.* is an error, 4*l.* 17*s.* 6*d.* being the tax on a net income of 130*l.*

Hours in Belfast.

"I understood that the Ulster Drug-trade Association had undertaken to call a meeting of Belfast traders for the purpose of getting them to agree on an early-closing movement—viz., 8 P.M. or 7.30 P.M., and 10 P.M. on Saturdays. Some of the members were canvassed six weeks ago, but no steps have been taken as yet. Before we know where we are summer will be over, and we will be "where we were." Who will do something?"—*Early Closing* (231/36).

Colouring Corn-paint.

"The suggestion by 'An Old Hand' (*C. & D.*, May 9, p. 66) to use extracts of belladonna and hyoscyamus for colouring salicylic corn-paint is not a good one. These green extracts are not often green when the smearing on paper test is applied, for the chlorophyll, although present, is obscured by some other constituent of greater tinctorial power. To show the presence of the chlorophyll it is only necessary to digest 1 or 2 grams in the solvent medium used in making collodion and it will be found to assume a green colour. Similarly it may be shown also by the well-known benzolated amylic alcohol solvent mixture of the British Pharmacopœia. That the ether and alcohol mixture for collodion is not coloured green by these extracts is shown by smearing a little on the hand, when practically very little colour is left on evaporation of solvent. Aniline dyes are not much better, nor is copper acetate (which imparts a fine green colour to the liquid, but not much when put on the skin). As to the medicinal effect of the use of these extracts, since they are acid and their alkaloidal salts are not, as a rule, soluble in ether, not much help will be got from this, the sedative point of view. The amount of extract obtainable from, say, ext. bellad. fol. by the collodion solvent is not great. I have examined the matter thoroughly, with a view to seeing how much alkaloid is thus dissolved, but it is so small as to be insufficient to allay any pain which might arise from the salicylic acid when applied to corns."—*Abel Scholar.*

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 469-499.

P. F. (227/41).—Your queries regarding the sale of known, admitted, and approved remedies are anticipated by our *Diary* article beginning on p. 485. Read the paragraphs "Apprenticeship" and "Exemption."

Cash Drug-stores (230/9).—See reply to "M. P. S." in the *C. & D.*, May 16, p. 64, and the *C. & D. Diary*, p. 471. It is not possible for us to find space to repeat legal information of a general character or which is commonly known, particularly when it is so easy to find all that is wanted in our *Diary*.

Seventeen (228/21).—Forms of indenture for apprenticeship are obtainable from law stationers. An indenture means an agreement in duplicate which is divisible into two parts by a suitable indentation. It is not necessary to employ a solicitor to draw up such agreements. You will find a suitable form in the *C. & D. Diary*, p. 238. Perhaps you might get copies of this typed locally, filling in the blanks with the necessary words.

Manchurian (226/20) wants to know if the Pharmaceutical Council is likely to prosecute an unqualified person selling by retail pills each of which contains a twentieth of a grain of hyoscyamus extract. [We are not aware of any instance in which the Council has considered a pill containing so small an amount of the extract to be a poison within the meaning of the Poisons and Pharmacy Act, 1908. Extract of henbane is such a poison, as it is a preparation containing a poisonous vegetable alkaloid in demonstrable toxic quantity, but a pill containing a ten-thousandth of a grain of that poison might reasonably be considered to come within the *de minimis non curat lex* ruling. It is, however, not improbable that a large stock of such pills kept by an unqualified person in his open shop might be evidence that that person is keeping open shop for the sale of poisons contrary to Section 15 of the Pharmacy Act, 1868.]

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

Cigarette (205/35).—Medicated Cigarettes.—Various kinds are in use, the stramonium cigarettes being most commonly employed for the relief of asthma. The leaves are broken up small and sprinkled with potassium-nitrate solution to promote combustion. The dried leaves are then made into cigarettes. In France medicated cigarettes are official also made with henbane, digitalis, and eucalyptus, while belladonna is sometimes combined with stramonium to make the cigarettes more sedative in asthma. One well-known proprietary medicinal cigarette is stated to contain a little opium, and another owes its properties to the cannabis indica it contains.

F. K. (212/49).—Foot-bath Powder.—See *C. & D.*, July 5, 1913, p. 67.

H. K. W. (212/65).—Colouring and Flavouring Liquid Paraffin.—A red colour is obtained with alkanet extract, while saccharin gives sweetness and vanillin the flavour. See *C. & D.*, March 21, p. 67, and Mr. Rowland's paper in the *C. & D.*, April 4, p. 59.

J. N. (203/2).—We do not know of any special work dealing with the analysis of the materials employed in the manufacture of aërated waters.

J. H. S. (206/16).—Moustache-fixer.—The solid form is made as follows:

Powdered acacia	1 oz.
Soft soap	1 oz.
Water	2 oz.

Dissolve on a water-bath, and while still hot incorporate

White wax (melted)	2 oz.

When nearly cool stir in

Ylang-ylang oil	6 drops
Clove oil	1 drop
Eau-de-Cologne essence	4 drops
Benzoic acid	1 grain

Viator (204/73).—We are experimenting with your mixture, and hope to report upon it in an early issue.

Aspirin (225/5).—(1) Adhesive for Labelling Tins.—The following is the type of adhesive you require:

Gelatin	3½ lb.
Acetic acid	24 oz.
Methylated spirit	24 oz.
Water	10 pints

Soak the gelatin in the water overnight, then melt on a water-bath, add the acetic acid and concentrate to half its volume, then add the spirit and pour into bottles.

(2) Red Heliographic Prints.—These are made by the Obernetter process as follows: The sensitising solution consists of—

Solution of ferric chloride (sp. gr. 1.42)	46 c.c.
Copper chloride	100 grams
Hydrochloric acid	10 c.c.
Water	1,000 c.c.

The paper, previously sized, is floated on this solution for two minutes, and then dried in the dark. The paper is printed until a faint image appears, and is developed in the following solution:

Potassium sulphocyanide	12 grams
Sulphuric acid	0.5 c.c.
Sensitising solution	10-12 c.c.
Water	1,000 c.c.

The paper is floated face downwards in this for three or four minutes, and then immersed from five minutes to half an hour, after which the prints are washed in running water for an hour. The image is next made visible by immersing the prints for some time in the following liquid:

Potassium ferricyanide	100 grams
Water	1,000 c.c.

When the required tone is obtained, wash in running water for a quarter of an hour, and dry.

Rex (Natal) (222/11).—Allyl Sulphide has been re mended for tuberculosis. The dose is one to two drops diluted and flavoured with peppermint oil. It is also ministered hypodermically, 15m to 30m of mixtur 3m of allyl sulphide in 25m of olive oil being inje Allyl sulphide is also used for cholera, indigestion, hysteria. In cholera the remedy is given in the for an intestinal irrigation of a 1-in-1,000 solution warme 36° C. three times a day, at the same time admini ing ⅓m to ½m, well diluted, every half-hour.

C. A. (214/23).—(1) Headache-powder.—The best po for retail sale is probably—

Phenacetin	gr. viij.
Caffeine citrate	gr. ij.

This may be repeated in two hours if relief has not obtained. (2) Phosphorised Tonic-drops:

Acid. phosph. dil.	ʒiij.
Tr. ferri perchlor.	♏j.
Quin. sulph.	gr. v.
Sp. chlorof.	♏j.
Glycerin. ad	ʒj.

Dose: Five to fifteen drops in a wineglassful of w three or four times a day.

Zemo (221/35).—Destroying Wasps.—Make a solution potassium cyanide of the strength of from 1 oz. to 2 o a pint of water, and with this saturate pledgets of cot wool and place them in the nests of the wasps, covering a clod of earth. Other remedies are carbon bisulph petrol, and carbolic acid applied in a similar way, but recommend firing the carbon bisulphide and petrol, wi has the effect of blowing up the nests.

F. S. (220/63).—Making Paper Transparent.—The meth in use are as follows:

1.

Gum dammar	37 parts
Oil of turpentine	200 parts

Dissolve, decant, and add-

Poppy oil	130 parts

After applying this varnish the paper is sprinkled with fine pine-sawdust, which is again removed without delay by means of a brush.

2.

White wax	2 pa
Absolute alcohol	15 pa
Ether	1 pa

Dissolve, and pour off clear solution, which applied to the paper wit brush.

W. J. W. (224/29).—Apply to the College of Precept Bloomsbury Square, London, W.C., for particulars as where the examinations take place in 1914.

Retrospect of Fifty Years Ag

Reprinted from "The Chemist and Druggist," May 14, 186

United Society of Chemists and Druggists.

The Executive Committee of the United Society Chemists and Druggists have the gratification of publish the accompanying list of subscriptions received from trade towards the Incorporation and Defence Fund. three-page list is given.] They also have pleasure acknowledging the many kind expressions of confidence t have been favoured with, and also beg leave to thank trade for the very important suggestions they have recei in reference to their proposed Act of Incorporation. opposition that has been made by the United Society behalf of the trade against the threatened new Med Bill has, no doubt, frustrated the further progress of unjust aggression; but until an authoritative announcem is made that the Bill has been abandoned, the Execut deem it right not to relax in their exertions to secur formidable organisation against it. . . . With regard future legislation to procure an Act of Incorporation, Executive Committee feel that they are called upon to m a full and frank avowal of their policy. They had inten to have delayed the introduction of this measure until reassembling of Parliament, which would have enabled th to have economised their strength and avoided the ha legislation inseparably connected with a closing sess while it would have given them the advantage of receiv the matured judgment of the trade in reference to measure. The recent proposition for an immediate Bill regulating the Qualification of Chemists and Druggists the Pharmaceutical Society may, however, somewhat al this desirable arrangement, in which case the Execut Committee of the United Society will only be governed the interests and wishes of the entire trade.

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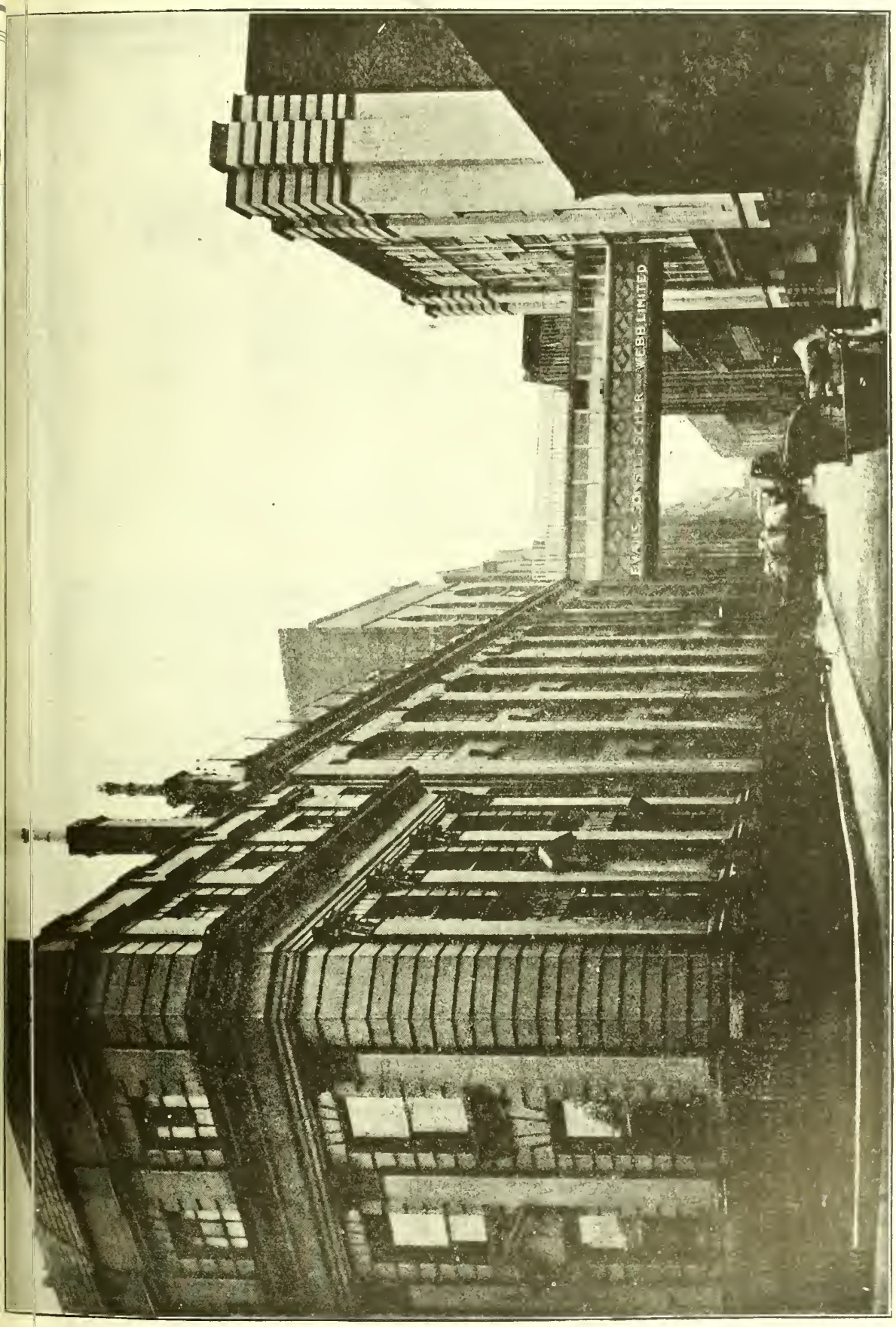

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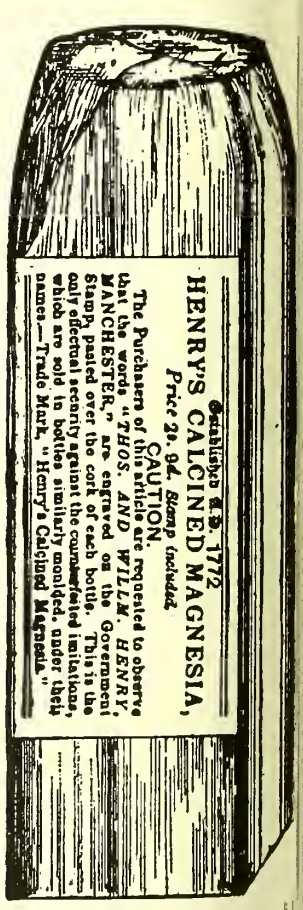

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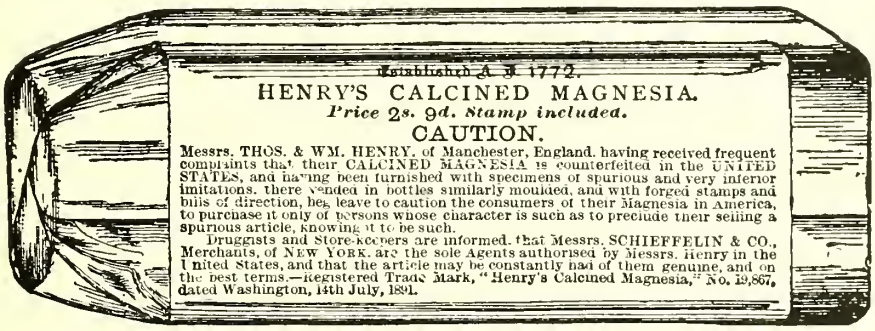

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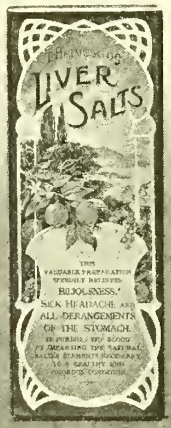

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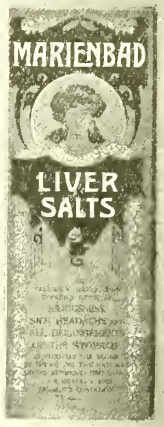

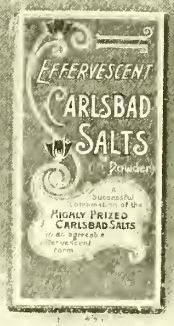

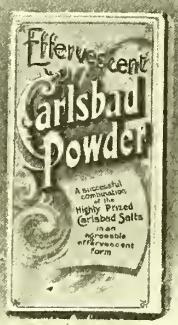

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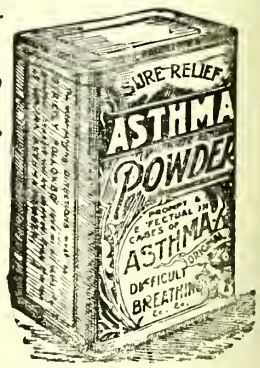

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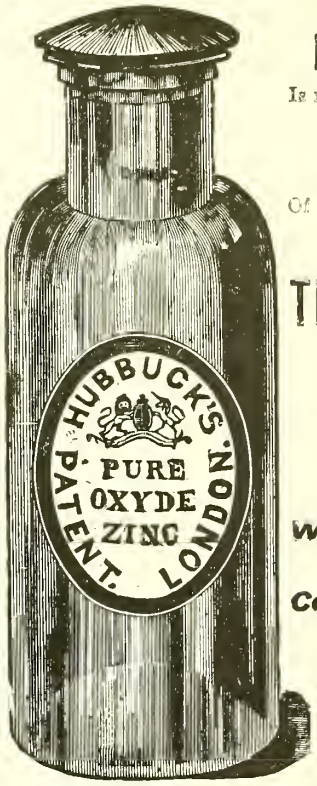

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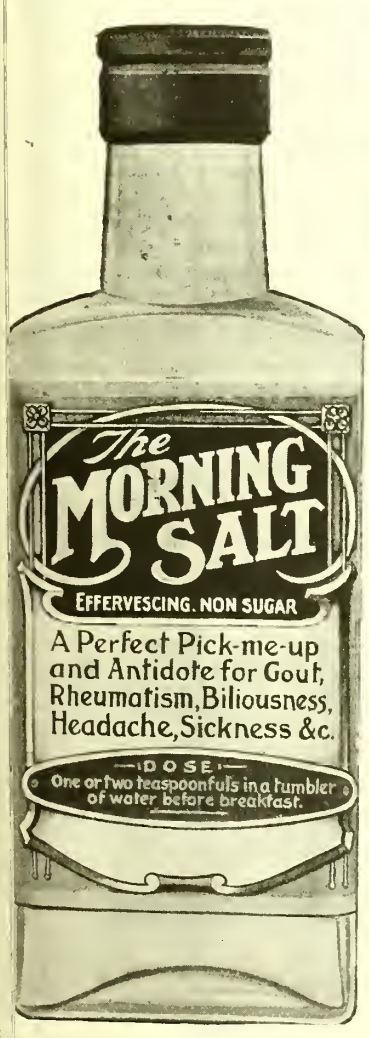

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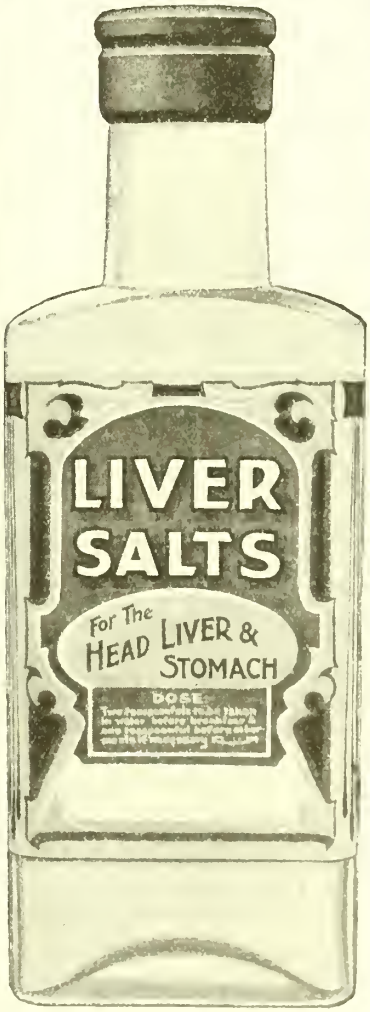

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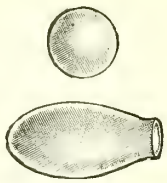

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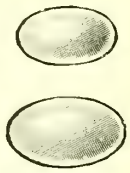

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Guaiacol Carb., 7 lbs. @ 7/9 lb.; 1 lb. @ 8/3 lb.
Guaiacol, pure, 1 lb. @ 6/9 lb.
Gum Acaciæ, sorts, 3 cwt. @ 37/6 cwt.; 1 cwt. @ 41/6 cwt.; 7 lbs. @ 6½d. lb.; English Ground Powder, No. 1, 1 cwt. @ 95/- cwt.; 7 lbs. @ 1/1 lb.; No. 2, 1 cwt. @ 75/- cwt.; 7 lbs. @ 10d. lb.
Gum Benzoin, Sumatra, 84 lbs. @ 1/5 lb.; 7 lbs. @ 1/8 lb.
Gum Catechu Nig., English Ground, 1 cwt. @ 75/- cwt.; 14 lbs. @ 8½d. lb.
Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.
Gum Juniper, 14 lbs. @ 10d. lb.
Gum Thus Elect., 2½ cwt. @ 34/- cwt.; 28 lbs. @ 42/3 cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/1 lb.
Heliotropine, 1 lb. @ 7/- lb.
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 29/6 cwt.
Hexamethylenetetramine, 7 lbs. @ 2/1 lb.; 1 lb. @ 2/5 lb.
Honey, Pale Set, Jamaica, 3½ cwt. @ 43/- cwt.; 28 lbs. @ 50/- cwt.; Californian, ½ cwt. @ 52/6 cwt.; 7 lbs. @ 7½d. lb.
Hydrargyrum, P.B., 75-lb. bottle @ £7/2/6; 10 lbs. @ 2/2 lb.; 1 lb. @ 2/6 lb.; Ammon., 28 lbs. @ 3/1 lb.; c. Creta, 28 lbs. @ 1/5 lb.; Iodid. Rub. 28 lbs. @ 11/3 lb.; Oxid. Rub., 28 lbs. @ 3/1 lb.; Perchlor., Lump. 28 lbs. @ 2/4½ lb.; Subchlor., 28 lbs. @ 2/10 lb.; Sulph. c. Sulph., 28 lbs. @ 2/6 lb.; 7-lb. quantities 1d. lb. extra, 3-lb. quantities, 2d. lb. extra, 1-lb. quantities 3d. lb. extra.
Hydrokinoue, 7 lbs. @ 2/4 lb.; 1 lb. @ 2/7 lb.

Ichthyol Ammon. 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.; chemical equivalent: Ammon. Ichthosulphonas, B.P. Codex, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
,, Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
,, Buchu Conc., 1 to 7, 6 lbs. @ 2/2 lb.
,, Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
,, Caryoph. Conc., 1 to 7, 6 lbs. @ 1/- lb.
,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/4 lb.
,, Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/1 lb.
,, Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
,, Rhei Conc., 1 to 7, 6 lbs. @ 1/6 lb.
,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/4 lb.
,, Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
Insect Powder, Opt., English Grd., closed flowers, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.; Englisb Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 1 cwt. @ 80/- cwt.; 28 lbs. @ 9d. lb.
Iodoform Pulv. B.P., 7 lbs. @ 16/6 lb.; 3 lbs. @ 16/10 lb.; 1 lb. @ 17/1 lb.
Iodum resub. B.P., 7 lbs. @ 14/4 lb.; 1 lb. @ 14/10 lb.
Isinglass, Brazil, fine cut, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.; Russian finest, 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; Ribbon or Sheet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.

Kamala, 7 lbs. @ 1/4 lb.; sifted, 3d. per lb. extra.

Lapis Pumicis, fine powder, 2 cwt. @ 8/- cwt.; 7 lbs. @ 1½d. lb.; lump, 2 cwt. @ 12/- cwt.; 7 lbs. @ 3d. lb.
Licorice Juice, 4 and 2-oz. Sticks, 5 cwt. @ 65/- cwt.; 1 cwt. @ 66/- cwt.; 28 lbs. @ 7½d. lb.; 7 lbs. @ 8d. lb.
*Lin. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb.
* ,, Bellad. Meth., 5 lbs. @ 1/5 lb.; 1 lb. @ 1/8 lb.
,, Camph. P.B., 40 lbs. @ 11d. lb.; 9 lbs. @ [1/- lb.
,, Sapo Meth., 9 lbs. @ 7d. lb.
,, Tereb. Acet., B.P., 5 lbs. @ 1/- lb.
Linseed c. Oil, Crushed, 3 cwt. @ 17/6 cwt.; 1 cwt. @ 18/6 cwt.
*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 8d. lb.; 1 lb. @ 1/- lb.
* ,, Ammon. Aromat., 6 lbs. @ 9d. lb.
* ,, Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.
* ,, Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* ,, Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
* ,, Bismuth, P.B., 6 lbs. @ 1/1 lb.
* ,, Copaiba Bucbu et Cuheb, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
* ,, Easton., p.s. 1-3, B.P., 1 lb. @ 3/- lb.
* ,, Ferri Dialysatus, 6 lbs. @ 7d. lb.
* ,, Ferri Iod. p.s., 1-7, 1 lb. @ 7/6 lb.
* ,, Ferri Perchlor. Fort., P.B., 7 lbs. @ 4d. lb.
* ,, Ferri Phosph. Co. p.s., 1-7, 7 lbs. @ 1/6 lb.
* ,, Hamamelidis, B.P., 6 lbs. @ 1/1 lb.
* ,, Hypophosph. Co. p.s., B.P.C., 1 lb. @ 3/4 lb.
* ,, Iodi Fort, B.P., 5 lbs. @ 5/6 lb.
* ,, Morphinæ Acet. or Hydrochlor., P.B., 6 lbs. @ 2/9 lb.
* ,, Opii Sed., 5 lbs. @ 4/6 lb.
* ,, Plumbi Subacet., P.B., 7 lbs. @ 3½d. lb.
* ,, Pruni Virg. p.s. 1-7, 5 lbs. @ 2/2 lb.
* ,, Rbœados pro Syr., 1 to 7, 5 lbs. @ 1/11 lb.
* ,, Rhei p.s. 1-7, 6 lbs. @ 2/2 lb.
* ,, Santali Co., 1 lb. @ 3/9 lb.
* ,, Sennæ Dulc. 6 lbs. @ 1/4 lb.
* ,, Sennæ pro Syr. 1-7, 6 lbs. @ 2/- lb.
* ,, Strychninæ Hyd. P.B., 6 lbs. @ 1/6 lb.
* ,, Tolut. pro Syr. 1-7, 6 lbs. @ 1/8 lb.
* ,, Trinitrini, B.P., 1 lb. @ 6/1 lb.
Lithia Carb. P.B., 28 lbs. @ 2/9 lb.; 7 lbs. @ 2/11 lb.; 1 lb. @ 3/1 lb.
,, Citras, B.P., 28 lbs. @ 3/2 lb.; 7 lbs. @ 3/5 lb.; pulv., 3d. lb. extra.
Lycopodium, 22 lbs. @ 2/1½ lb.; 7 lbs. @ 2/3 lb.

Mag. Calc. Levis, 56 lbs. @ 8d. lb.; 5 lbs. @ 10d. lb.; 1 lb. @ 1/- lb.
Mag. Calc. Pond., 7 lbs. @ 1/10 lb.; 1 lb @ 2/-lb.
Mag. Carb. Pond., 56 lbs. @ 6½d. lb.; 7 lbs. @ 7½d. lb.
Mag. Carb. Levis., 1 cwt. @ 25/-; 7 lbs. @ 4d. lb.
Mag. Cit. Gran., 28 lbs. @ 8d. lb.; 6 lbs. @ 9½d. lb.
Mag. Sulph., fine druggists', B.P., 1 cwt. @ 7/3 cwt.
Manna, Fine New Flake, 14 lbs. @ 5/3 lb.; 7 lbs. @ 5/6 lb.; 1 lb. @ 5/9 lb.
Menthol, dry white cryst., 60 lbs. @ 11/6 lb.; 5 lbs. @ 11/9 lb.
*Mist. Sennæ Comp. B.P., 20 lbs. @ 6½d. lb.; 6 lbs. @ 7½d. lb.
Morphinæ Acet. Hydrocblor. or Sulph., Pulv. B.P., 25 oz. @ 8/1 oz.; 16 oz. @ 8/3 oz., 8 oz. @ 8/6 oz.; 1 oz. @ 9/6 oz.; Pur. Præcip. Bimeconate or Tart. 1 oz. @ 11/6 oz.
Morphinæ Diacetyl., 4 oz. @ 11/8 oz.; 1 oz. @ 12/2 oz.; Hydrochlor., 6d. per oz. less.
Myrrh, Gum, English Ground, 28 lbs. @ 11d. lb.; 7 lbs. @ 1/1 lb.

Napbthalene, Candles or Balls, 1 cwt. @ 13/6 cwt. 56 lbs. @ 16/- cwt.; 28 lbs. @ 18/- cwt.
Nux Areca, 1 cwt. @ 30/- cwt.; 7 lbs. @ 4d. lb.; powder, English ground, @ 59/- cwt.; 7 lbs. @ 7½d. lb.

Ol. Amygdal. Ang., B.P., 9 lbs. @ 2/8½ lb.
Ol. Amygdal. Essent. Artificial, free from Chlorine, 5 lbs. @ 3/- lb.; 1 lb. @ 3/9 lb.
Ol. Anethi Ang. B.P., 1 lb. @ 14/6 lb.
Ol. Anisi, E.I., 66 lbs. @ 6/- lb.; 16⅔ lbs. @ 6/5 lb.; 4½ lbs. @ 6/10 lb.; 1 lb. @ 7/6 lb.
Ol. Aurant., 12 lbs. @ 12/- lb.; 1 lb. @ 12/6 lb.; not guaranteed absolutely pure.
Oil of Bays, genuine W.I., 9 lbs. @ 15/- lb.
Ol. Cajuput., B.P., 21½ oz. bots. @ 3/- lb.
Ol. Campbor. Essent., White, 80 lbs. @ 70/- cwt.; 40 lbs. @ 75/- cwt.; Brown, 40 lbs. @ 110/- cwt.
Ol. Caryoph. Ang., B.P., 9 lbs. @ 4/3 lb.; 4½ lbs. @ 4/5 lb.
Ol. Cassiæ, 16 lbs. @ 3/6 lb.; 6 lbs. @ 3/11 lb.
Ol. Cinnam. B.P., 1 lb. @ 28/- lb.; 1 oz. @ 2/2 oz.
Ol. Citronellæ, 9 lbs. @ 2/3 lb.
Ol. Coco. Nucis, finest White, 80 lbs. @ 61/- cwt.; 40 lbs. @ 63/6 cwt.
Ol. Eucalypt., B.P., 1 cwt. @ 1/4½ lb.; 28 lbs. @ 1/5½ lb.; 9 lbs. @ 1/7 lb.
Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc., 1 lb. @ 12/6 lb.; 4 ozs. @ 15/- lb.
Ol. Gynocardiæ, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.
Ol. Juniperi Bacc., B.P., 4½ lbs. @ 3/8 lb.; 1 lb. @ 4/1 lb.; Ligne Exot., 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
Ol. Lavand. ab Flor., 5 lbs. @ 13/- lb.; 1 lb. @ 13/6 lb.
Ol. Menth. Pip. English, 5 lbs. @ 32/- lb.; 1 lb. @ 33/6 lb.; Hotchkiss original bots., 21 oz. each @ 22/- lb.; 6 bots. @ 21/6 lb.; 18 bots. @ 20/6 lb.; American, 20 lbs. @ 18/- lb.; 4½ lbs. @ 18/9 lb.; 1 lb. @ 19/6 lb.; Japanese, 60 lbs. @ 4/6 lb.; 5 lbs. @ 5/- lb
Ol. Morrhuæ, 1913, finest non-freezing, 25 gall. tin-lined barrels @ 76/- per barrel; 2-gall. tins @ 4/3 per gall.
Ol. Myrbane, 1 cwt. @ 43/- cwt.; 9 lbs. @ 6½d. lb.
Ol. Myristicæ, 7 lbs. @ 2/10 lb.; 1 lb. @ 3/2 lb.
Ol. Nucis Pallid., 45 galls. @ 3/8 gall.; 2 gall. tins @ 9/- each.
Ol. Olivæ, P.B., good yellow, guaranteed pure, 45 gall. Barrels @ 4/10 gall.; 2-gall. tins @ 5/9 gall.; fine cream, 9 lb. tins @ 7/2 each.
Ol. Origani Rub., Coml., 28 lbs. @ 1/10 lb.; 9 lbs. @ 2/- lb.
Ol. Peach Kernel (so-called), 1 cwt. @ 10d. lb.; 56 lbs. @ 10½d. lb.; 9 lbs. @ 1/- lb.
Ol. Pulegii, B.P., 5 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
Ol. Ricini Alb. Opt. Medicinal, 176 lbs. @ 40/6 cwt.; 88 lbs. @ 42/- cwt.; 44 lbs. @ 44/- cwt.; 9 lbs. @ 6d. lb.; for export, 1 cwt. drums recommended, 9/6 eacb extra; or 3½ cwt. barrels @ 38/- cwt.
Ol. Rosmarini, Coml., 28 lbs. @ 1/6 lb.; 9 lbs. @ 1/7 lb.; B.P., 9 lbs. @ 2/5 lb.; 1 lb. @ 2/9 lb.
Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 22/6; 1 lb. @ 23/- lb.
Ol. Sassafras, genuine, 28 lbs. @ 3/3 lb.; 1 lb. @ 3/8 lb.
Ol. Theobromæ, B.P., 8-oz. tabs., 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9 lb.
Ol. Wintergreen, Artificial, 56 lbs. @ 1/2 lb.; 5 lbs. @ 1/8 lb.; 1 lb. @ 1/10 lb.
Opium Turc. B.P., 14 lbs. @ 16/6 lb.; 3 lbs. @ 17/6 lb.; 1 lb. @ 18/2 lb.; powder, 6d. lb. extra.

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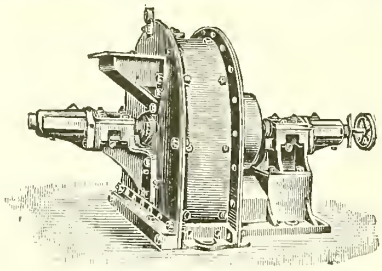

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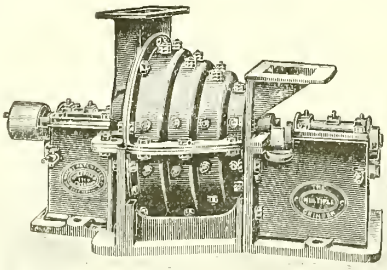

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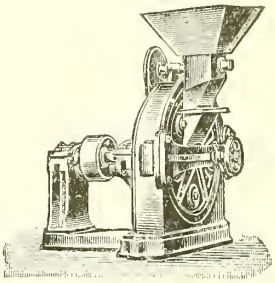

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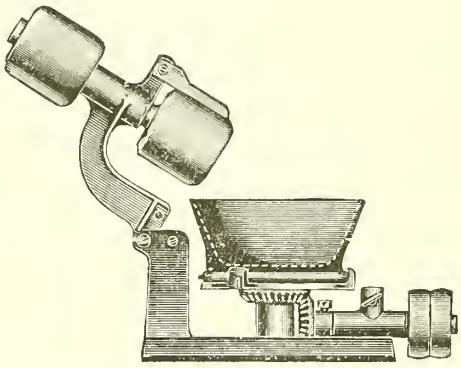

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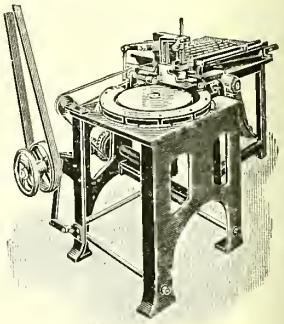

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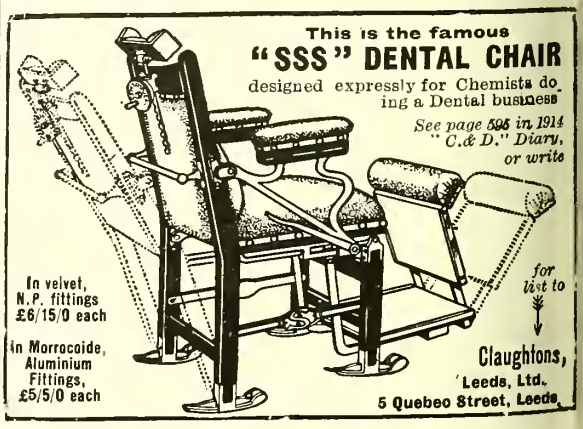

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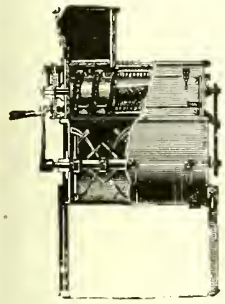
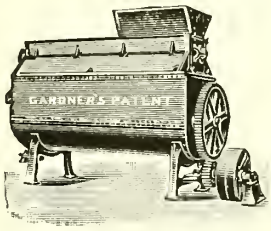

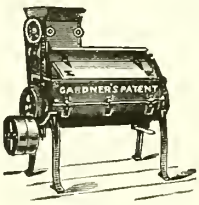

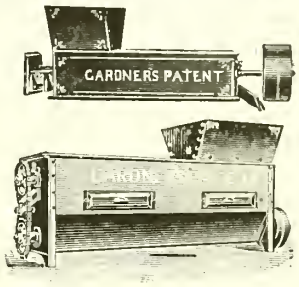

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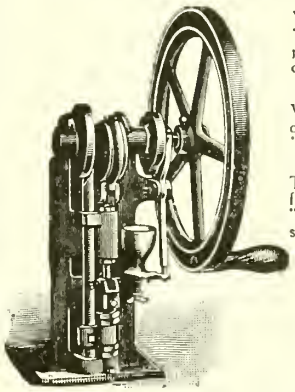

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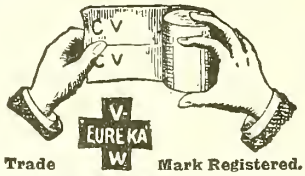

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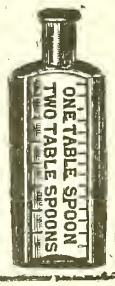

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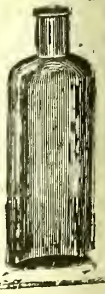

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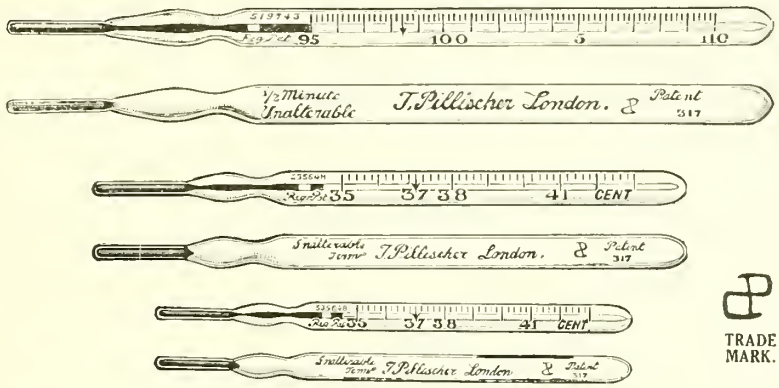

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	Minimum Retail.	Per doz. net.		Minimum Retail.	Per doz. net.		Minimum Retail.	Per each net.
½ oz. (7½d. size)	6½	5 3	3 oz. (2/9 size)	2 6	24/-	16 oz. (11/- size)	10	8/-
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Carriage Paid on orders over £2.

Monopoly or Agency given where still vacant.

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Indispensable for the daily life. Used by everybody.

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The Mustard Oil can be made more stimulating if requisite.

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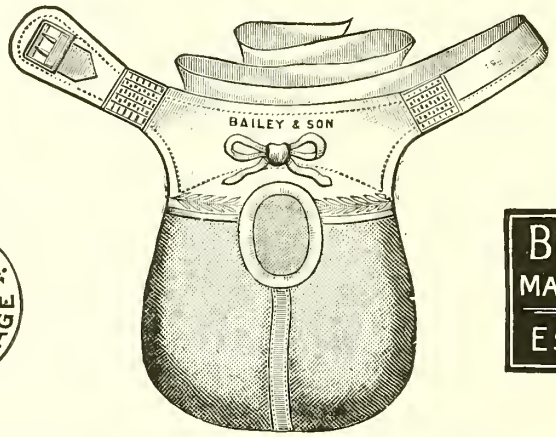

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More than Ever!!! The increasing number of Orders from Abroad PROVES what the "CHEMIST & DRUGGIST" says:—

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Try a SAMPLE CABINET (most Saleable Assortment), 2 doz. for 33/-

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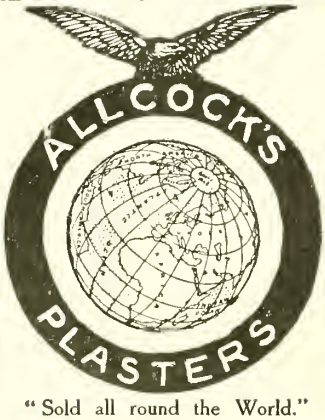

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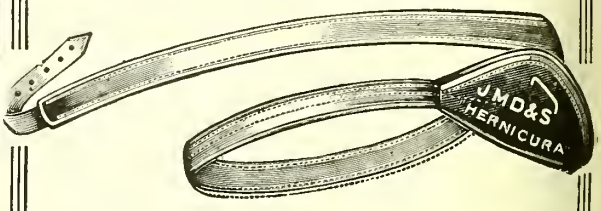

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Try
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GUARANTEED FOR 2 YEARS.

The "EMPIRE" Red India-Rubber Air Cushion.

Diameter—ins.	13	14	15	16	17	18	19	20
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
BEST QUALITY ... each	4 6	5 0	5 6	6 0	6 6	7 6	8 6	10 0
SPECIAL " ... "	4 2	4 6	4 10	5 4	5 10	6 4	7 2	8 6

NOTE.—The SPECIAL QUALITY has not the highly finished appearance of the BEST QUALITY, but is a good Cushion for hard wear.

CHEAP SEAMLESS ENEMA.

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13/6 doz.

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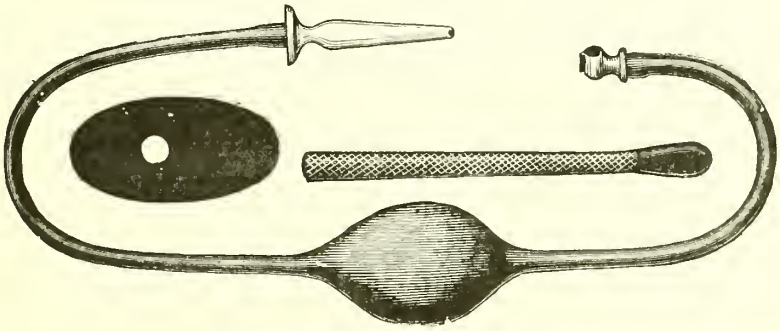

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Hospital pattern	per doz.	8	0
" lens front ...	"	12	0
60-seconds, plain	"	10	0
" lens front ...	"	14	0
30-seconds, plain	"	12	0
" lens front ...	"	16	0

THE "DUO IN UNO" PATENT
(QUICK SHAKE DOWN).

		s.	d.
Hospital pattern	per doz.	12	0
" lens front ...	"	16	0
60-seconds, plain	"	15	0
" lens front ...	"	20	0
30-seconds, plain	"	18	0
" lens front ...	"	27	0
Certificate of accuracy verified by Kew Observatory for any of above Thermometers	"	15	0

Each Thermometer is in a metal case, and packed in a specially designed card box with descriptive label on lid. Customers' names engraved on the Thermometers free of charge. We accept all risk of breakage in transit if advised by return of post. 5 % Discount allowed for Prompt Cash off above Prices. Carriage paid on orders of £2 and upwards.

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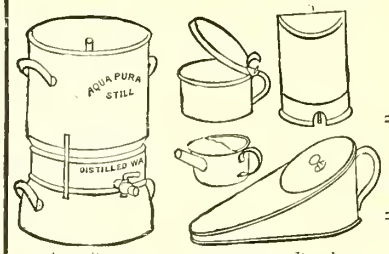

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3 & 4 oz.	6 & 8 oz.	10 oz.	12 oz.	16 oz.	20 oz. per gross.
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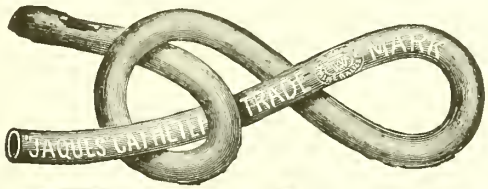

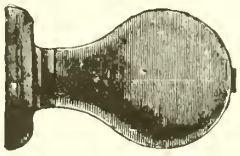

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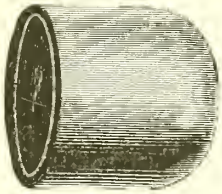

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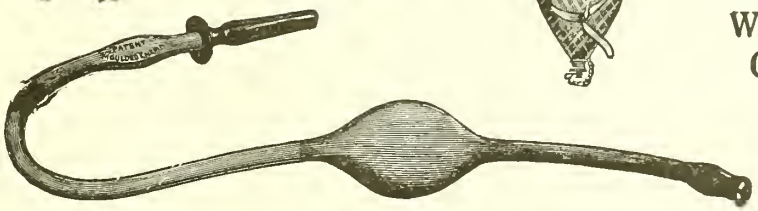

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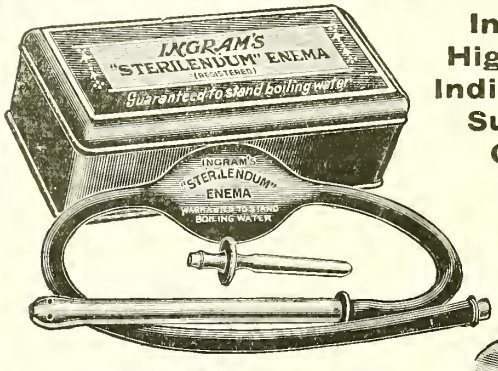

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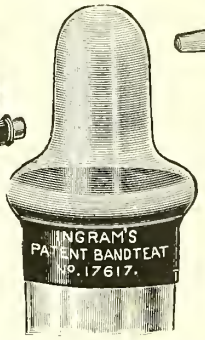

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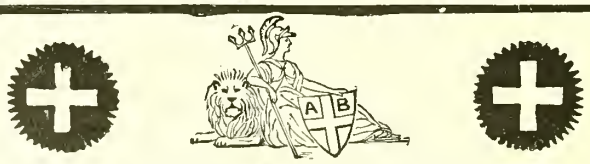

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In polished Walnut case with leather-supporting handle. 2-way switch enabling use of one or two batteries. Automatically cuts off current when closed. Price 17/4. Other patterns from 1/6 each, sub.

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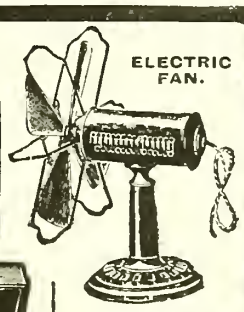

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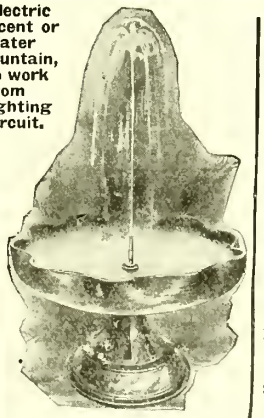
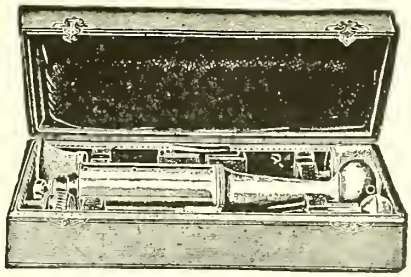


A Fancy Tinted Glass Bowl, about 16 in. dia., is supplied, into which the water falls and is pumped up by the Electric Motor in the base. Excellent attraction for Chemists, to throw up scent, antiseptic liquid, &c. Complete with lamp-holder adaptor to work from lighting circuit. This set throws a jet of water 18 to 24 inches. Price £2 12s., subject.



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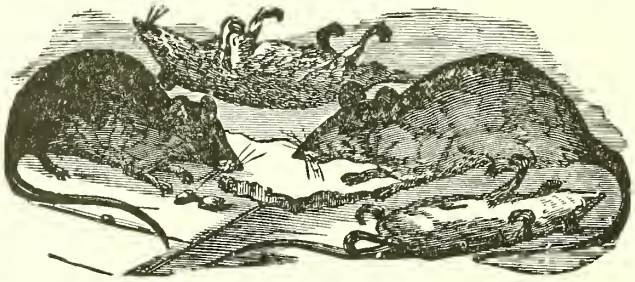

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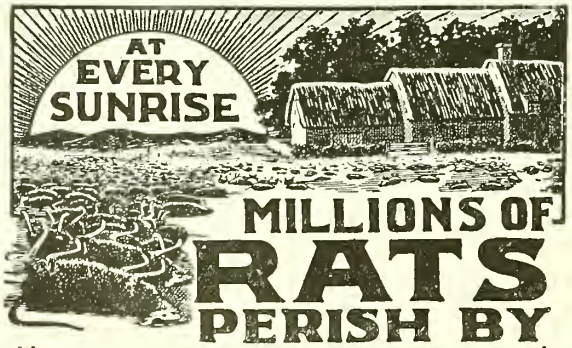

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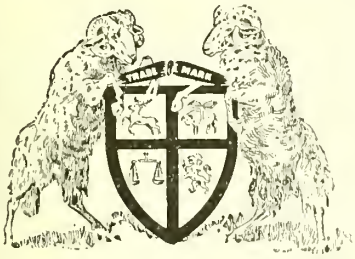

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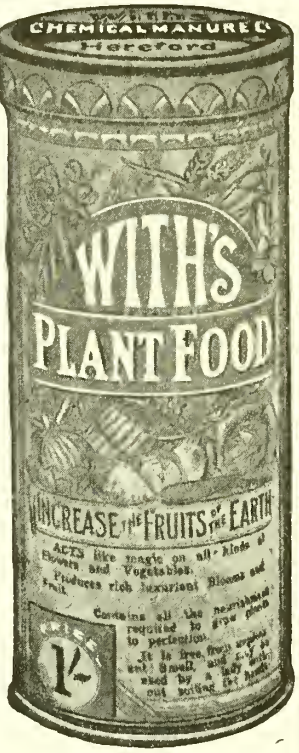

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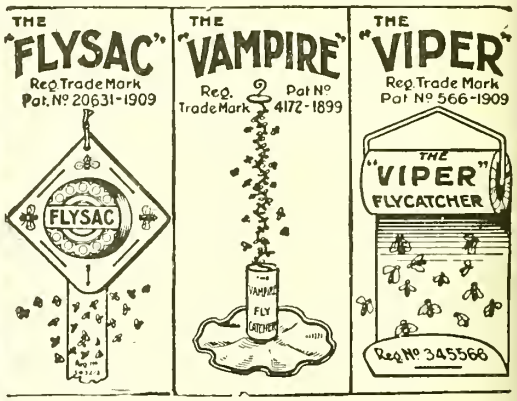

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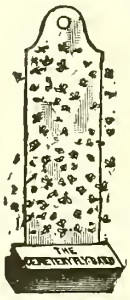

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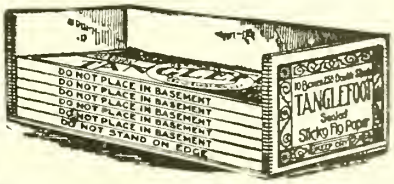

Parcel Post, packed, 150 Sheets, 5/-

Per case of 500 Sheets, 15/-

NEW SIZE TANGLEFOOT, 10/6 per case of 400 Sheets.
TANGLEFOOT is specially adapted for hot Climates, and is sold throughout the world.

The most famous European Fly Catcher is
AEROXON
with its Pin!

See the Pin!
Full guarantee that Aeroxon keeps perfect during 2 seasons!
If your dealer cannot supply you, write direct for quotation and samples to
Aeroxon Fly Catcher Works,
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BEATSON, CLARK & CO., LTD.

ESTABLISHED 1751.
HIGH-CLASS DISPENSING BOTTLES,
VIALS, POISONS, &c. GRAD. MEASURES,
RECESS AND GOLD-LABELLED SHOP ROUNDS.

MEDICAL GLASS MANUFACTURERS,
ROTHERHAM, YORKS.

ROLL FILMS DEVELOPED

AND DESPATCHED DAY AFTER RECEIPT.

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Coloured Miniatures.
Post Cards.
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Send for Price List of our Profitable Chemists' Side Lines.

ZEAL'S PATENT CLINICAL THERMOMETER.

The "REPELLO"

Requires no Shaking Down. A 30-Second pushed back in an instant.

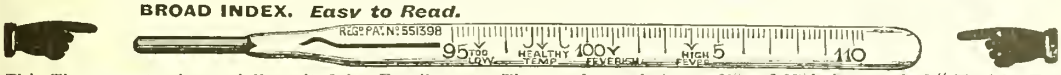
GUARANTEED ACCURATE.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND, 1907.

NEW 'FAMILY' CLINICAL THERMOMETER

ZEAL'S REGISTERED PATTERN (No. 551398).

BROAD INDEX. ***Easy to Read.***



This Thermometer is specially suited for Family use. The one degree between 98° and 99° being marked "Healthy Temperature," indicating that no danger need be feared between these points. Below 99° the figures and divisions are marked in Black; at 96° it is marked "Too Low." Above 99° the figures and divisions are marked in Red showing slight fever; at 101° marked "Feverish," and at 104° "High Fever." The marking of this Thermometer shows the condition of the patient at a glance. Just the Clinical for Home use. It also has an EXTRA BROAD index, making it easy to read, and flat sides to prevent rolling.

Send for New Illustrated List of Novelties to—

INVENTOR AND PATENTEE,

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Wholesale Manufacturer of CLINICAL THERMOMETERS. A Selection of 50 Kinds.

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GLASS TUBE WORKERS.

Fairfoot Works,

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Syringes.	Tube Vials.
Breast Drawers.	Pill Vials.
Nipple Shields.	Tablet Tubes.
Vaccine Tubes.	Inhaler Tubes.

Goods made to pattern from Glass Tubing and Solid Rod.

WHOLESALE HOUSES ONLY SUPPLIED.

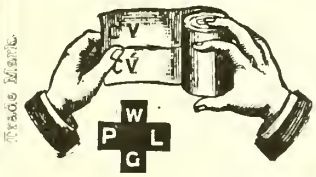
Speciality:

HIGH-CLASS SYRINGES.

The New Fast Edge

CREPE VELPEAU BANDAGES

THE ONLY ORIGINAL
Introduced by
W. GIMBER in 1892.



AN ELASTIC BANDAGE. Containing no Indiarubber. Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes—about 2, 2½, and 3½ inches wide.

CREPE VELPEAU ABDOMINAL BINDERS.

Useful after many Abdominal Operations, and for ladies after confinements. Two sizes—8 and 11 in. wide.

CAUTION.—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Marks on the Wrappers. Wholesale of the original Importers and Introducers.

W. GIMBER & SON, Surgical Bandage and Instrument Makers

44 QUEEN'S ROAD, PECKHAM, LONDON, S.E.

And of all Wholesale Druggists, Chemists, Surgical-instrument Makers, &c.

Telephone New Cross 1601. Descriptive Circular and Price List on application.

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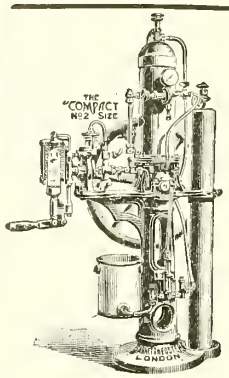
BEARS THIS LABEL

EWEN'S LARD

is the
ONLY LARD
that
is made exclusively for pharmaceutical and Perfumery preparations and is the
BEST AND MOST RELIABLE
Guaranted B.P. Lard on the Market.

BARNETT & FOSTER

11 GOLD MEDALS. *The Best House in the World for all requirements of the Mineral Water Trade.* 49 HIGHEST AWARDS.



THE "COMPACT" complete Soda-water Machine

For use with Compressed Carbonic Acid Gas is specially designed FOR CHEMISTS, and is provided with one or more filling machines.

Occupies little space. Ready for immediate use. Requires no fixing.

Produces Soda-water, Lemonade, etc., of the highest quality and greatest purity.

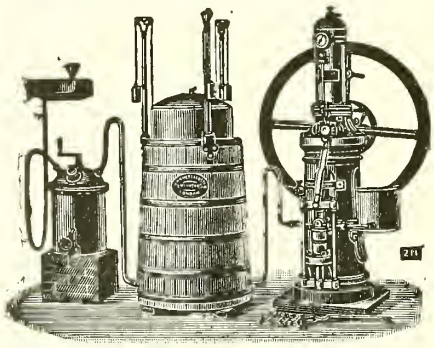
PRICES—

No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles *and* Syphons ... £60
No. 2.—Capacity 600 dozen per day, including Filling Machines for Bottles *and* Syphons ... £48
No. 3.—Capacity 300 dozen per day, including Filling Machines for Bottles *or* Syphons ... £33

We also make a smaller machine at £20.

THE PERFECTION OF SIMPLICITY. AUTOMATIC CARBONATION.

To those who can spare space in which to generate their own gas, we offer the "Niagara" machines advertised below.



THE "NIAGARA" Soda-water Machine

(Continuous Action).

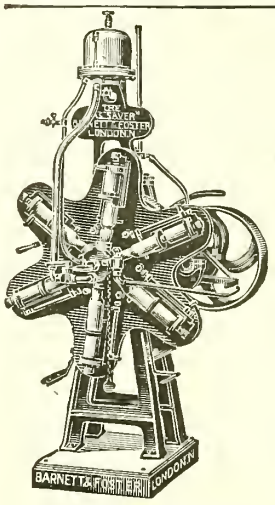
This machine is superseding all other types for the manufacture of FIRST-CLASS Aerated Waters, and is in use in most of the leading manufactories throughout the world.

PRICES, COMPLETE, from £30,

FITTED FOR HAND AND POWER

Particulars of Larger Sizes on application.

NOTE.—These machines are sent out by us complete and ready for work. We include all necessary connecting pipes ***without extra charge.*** No "extras" to pay for after buying our machines.



THE "GAS-SAVER," Price £60

STUDY QUALITY—AS CHEMISTS MUST—

By Bottling on our Latest Types of Filling Machines. We Guarantee the

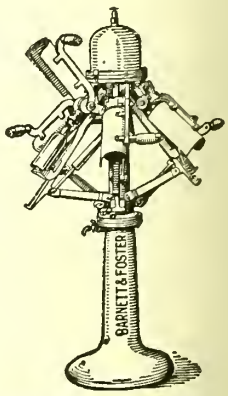
Highest Quality Soda-water at 60-lb. Pressure!

thereby Saving Gas, avoiding Bottle-breakage and improving quality of Products.——The secret:

BACK PRESSURE—PROPERLY APPLIED.

Particulars of the "GAS-SAVER," for filling Codd's and Niagara Bottles; The "ROUNDABOUT," for filling Corked, Crowned and Screw Bottles sent on application.

SAVE MONEY.



THE "ROUNDABOUT," in 6 sizes, prices from £25

CATALOGUE of all our Manufactures, including Syphon-filling Machines, Syphons, all classes of Bottles, Modern Bottle-washing Appliances, Ice and Refrigerating Plant, Essences, Flavourings and Drugs, and every requirement of the trade sent FREE on application to—

NIAGARA WORKS, 26T EAGLE WHARF ROAD, LONDON, N.,

AND AT BOLTON, LANCS.

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Essence Distillers, Manufacturing, Analytical and Consulting Chemists to the Aerated Water, Brewing and Confectionery Trades.

CONCENTRATED SOLUBLE ESSENCES — RED CLUB — PURE ESSENTIAL OILS

RED CLUB **BRAND** RED CLUB

FRUIT CORDIAL AND LIQUEUR ESSENCES — RED CLUB — CHEMICALS AND DRUGS

HARMLESS LIQUID COLOURINGS FOR AERATED BEVERAGES.
HARMLESS COLOURS IN POWDER FOR CONFECTIONERY.
"NIAGARA" SOLUBLE HEADING POWDER.

"NIAGARA FOAM"

A highly concentrated heading liquid for imparting a rich, creamy, close, and lasting head to beverages of all kinds.

"NIAGARA SPRING-WATER CRYSTALS"

Enable water to absorb a much larger proportion of Carbonic Acid Gas, and thus greatly increase its briskness and vivacity.

EXTRACTS FOR BREWING NON-ALCOHOLIC BEVERAGES; FININGS FOR SYRUPS, BEERS, WINES, AND CORDIALS. CONCENTRATED VINEGAR ESSENCE.

ALL CHEMICALS, DRUGS, HERBS AND MATERIALS EMPLOYED BY MINERAL-WATER MAKERS, BREWERS, CONFECTIONERS, LIQUEUR AND CORDIAL BLENDERS.

Liquid and Solid Preservatives. **Pure Salts for Mineral Waters.**

☞ Orders for Two Gallons and upwards of Essences can be shipped in bond. This quantity may be made up of different Essences, and the Bottles may be of different sizes.

MONTHLY PRICE LIST ON APPLICATION.

SPECIFY "RED CLUB" BRAND ON INDENTS.

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AS SUPPLIED TO H.M. THE KING.

PREPARED WITH

Distilled Water

Fixed Minimum Retail Prices—allowing a good Profit to Chemists.

Full Particulars of Agency Terms on application.

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TO AERATED WATER MANUFACTURERS.

DELICIOUS

AERATED BEVERAGES

ARE MADE FROM

HAY'S

Cream Soda Essence,

Cream Raspberry Essence (MADE FROM THE FRUIT),

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(MADE FROM THE FRUIT),

Orange Squash Essence,

Peach Ripe Essence,

Claret and Lemon Essence,

Cherry Cider Essence,

Lemon Squash Essence

(BRIGHT OR CLOUDY),

Lime Juice and Soda Essence,

Kola Champagne Essence,

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AND

"Pale Dry," Ginger Ale Essence.

SAMPLES AND FULL DIRECTIONS FOR USE FREE ON APPLICATION.
ATTRACTIVE LABELS AND SHOWCARDS SUPPLIED.

Orders for Two Gallons and upwards of Essence may be shipped under Bond.

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in all strengths, qualities and packages, and for Export to ALL BRITISH COLONIES and ALL OVERSEA COUNTRIES (except U.S.A.).

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Malt Preparation of Highest Diastatic strength.

DIAMALT & PARAFFIN.
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DRY DIAMALT,
A Crystallised Extract of Malt.

Price Lists and Samples from
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TRIVALIN
(OVERLACH).

New Valerian Preparation.

HARMLESS SUBSTITUTE FOR MORPHIA.

NERVE TONIC AND ANODYNE.

Specially recommended in Inoperable Cancer, Gall-stone, Sciatica, Neuralgia.

In Ampuls (1cc.) for Hypodermic Injections.
In Coated Tablets for internal administration.

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NOVOCAIN,

The Non-Irritant Local Anæsthetic.

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NOVOCAIN does not contain Cocaine.

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GOLD ALLOY.
SILVER ALLOY.
COPPER AMALGAM.

Alloy Measuring Spoon and Mercury Measure.

Manufactured under scientific supervision from published formulæ exclusively for

THE SACCHARIN CORPORATION, LTD.,
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"PRANA" SPARKLETS

HAVE YOU RECEIVED a copy of the striking new COLOURED SHOWCARD (of which a sketch is here shown) issued to assist you in making known to your customers the new D "SIZE" (refillable) 1½d. SPARKLET BULB?

If not, please send us a postcard.

Show this in your Window, with a few Sparklet Syphons, and so reap your full share of the demand for the new Sparklet Bulb which the Press Campaign (now running) is bound to create.

AERATORS LTD., "Prana" Sparklet Wks., Upper Edmonton, N.

Prompt Sales
Increasing Demand
Quick Turnover
Protected Price

You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis" because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

COLEMAN & CO., LIMITED,
Wincarnis Works Norwich.

WINCARNIS

GOOD!

IT'S MASON'S

EXTRACT OF HERBS.

The Drink for the Masses.

Millions of Glasses used daily by workers all over the Empire.

A CONSTANT USER SAYS:

Scole, Norfolk.

Gentlemen.—For years I took a glass of Malt Liquor before dinner to create an appetite, as I was a poor feeder. Some months ago I heard of your Extract for making Beer. I gave it a trial and have ever since used it as a substitute for the other, and the result is most satisfactory. After being bottled a few days it is as bright and sparkles like bottled Ale. Since taking it I have been free from the cruel pains of Indigestion, from which I had suffered a long time. Now instead of going to the "public house" in the evening for my usual glass, I smoke my pipe at home, drink my Herb Beverage and enjoy it, go to bed and sleep soundly. I have recommended it to many others, who have tried it with like results. Your Agent here thought I ought to give you a testimonial.

I am, Sirs, yours truly, J. W.

Besides being a grand refresher, Herb Beer made from

MASON'S EXTRACT OF HERBS

is cheap. For 2d. you can make a gallon of the most wholesome and invigorating beverage you ever tasted.

Please allow us to Sample and Quote—

Citrate Magnesia

Health Salt

Salines

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NEWBALL & MASON,
NOTTINGHAM.

HEALTH SALINE

In Patent Airtight Tins, which fill from the bottom.

X286.

ADVANTAGES:

Bad stock avoided, as Saline can be kept from season to season without deteriorating.

Satisfaction to Consumers.

For export these Tins are indispensable, as Saline can now be shipped without any risk.

X286 design, 4 oz., **2/9** doz.
X286L ,, 8 oz., **4/6** ,,
X41P Fruit design, 4 oz. **2/9** doz.
X41/SP ,, ,, (shorter), 3 oz., **2/3** doz.
X356 "St. George & Dragon," 4 oz. **2/9** doz.

Special designs produced for large buyers. Quotations on application.

By selling these tins of Saline you will double your trade.

Ordinary lever lid Tins supplied if wanted.

HYGEIA SALT

In square round-cornered tins with ordinary lever lid, very smart decoration, **2/9** doz.

Saline packed in Cheltenhams; 6 oz., **4/6** doz., 8 oz. **5/6** doz.

Also sold in bulk; price on application.

Shirley Brothers, Ltd.
"Whitecross Works," London, S.E.

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price	Dozen Net.
*LOSALL'S SALT (well advertised), tins	6d.	3/6
" " " "	1/-	7/-
" " " " bottles in cartons	1/6	10/6

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema — 1/- — 8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

SPECIAL TERMS ARE OFFERED FOR WHOLE OR PART WINDOW DISPLAYS.

Telegraphic Address: "PHARMACY MANCHESTER"

James Woolley Sons & Co. Ltd

ON P.A.T.A. LIST.

VALKASA

(REGISTERED TRADE MARK).

A combination of Soluble Milk Casein with Glycero-phosphates, forming a Restorative and Invigorating Food for Children and Adults.

VALKASA is not simply a stimulant, but an ideal

TONIC NERVE FOOD

which may be given with confidence in cases of

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ANÆMIA
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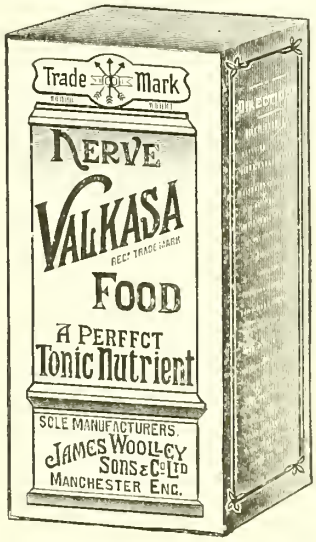
and in wasting diseases, also in all conditions resulting from defective nutrition.

In 2, 8 and 16 ounce Tins, 1/-, 3/- and 5/6 each. (Plain or Flavoured.)

SPECIAL PACKING for INDIA in 3/- BOTTLES.



Extract from an unsolicited testimonial:—"Six friends who have seen the wonderful change in me, and who were run down, are now taking VALKASA, and are benefited."

Stocked by London and Provincial Wholesale Houses. *Showcards Supplied.*

MANCHESTER.

INDENTS THROUGH BRITISH SHIPPERS.

CHEMISTS SHOULD PUSH

FRAME FOOD

IT BEARS A GOOD PROFIT.

SHOWCARDS AND DUMMIES ON APPLICATION.

ON THE P.A.T.A. LIST.

Frame Food Products always please customers.

FRAME FOOD CO.

Food Specialists

SOUTHFIELDS, LONDON, S.W.

"FERROCARNIS"

A pleasantly flavoured solution of iron in organic combination with BRAND'S Concentrated Raw Meat Juice.

Ferrocarnis combines the stimulating properties of meat juice with the tonic effect of iron. This product does not cause constipation, and thus affords a means of administering iron to patients who are unable to take ordinary iron preparations.

PREPARED BY

BRAND & CO., LTD., MAYFAIR WORKS, SOUTH LAMBETH ROAD, S.W.

PRICES PROTECTED.

Dr. Allinson's Food Preparations.

Food for Babies, Prepared Barley, Brunak, Power, N-F. Cocoa, Biscuits, Soup, Nutbutter (Walnut Brand), Wholemeal, &c.

NOTICE TO THE TRADE.

We issue a list of WHOLESALE HOUSES who keep above in stock; if for *any* reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return. See trade mark on all our goods: "T. R. ALLINSON." *None Genuine Without.*

NATURAL FOOD COMPANY, LIMITED,
305 Cambridge Rd., Bethnal Green, LONDON, E.

Handbills, Booklets, Showcards, &c., Free.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade.

BRANOVIM

THE NERVE AND BRAIN FOOD

Contains NITROGEN ... 12·32%
" PHOSPHORUS ... 3·53%

RETAIL PRICES:
1 lb. tins, 7/6; 8 oz. 4/-
4 oz. ,, 2/6; 2 oz. 1/4

THE BRANOVIM COMPANY,
33 TOOLEY ST., LONDON, S.E.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, MAY 23, 1914

Telephone Number: Bank 852 (two lines). Telegraphic Address: "Chemicus, Cannon, London" (charged as two words).

A COPY OF THIS SUPPLEMENT IS INSERTED IN EVERY NUMBER ISSUED OF "THE CHEMIST & DRUGGIST."

OVER 12,000

Copies of this Supplement are circulated **EVERY WEEK** to business men connected with the Chemical and Drug Trades. The **GUARANTEED CIRCULATION IS NEVER UNDER TWELVE THOUSAND.** This numerical distinction of the "C. & D." Supplement is one of the grounds of its popularity and power. There are others, chief of them in the esteem of those who advertise in it is that it brings the results wanted, therefore—

IT PAYS TO PAY FOR ADVERTISING IN THIS SUPPLEMENT

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lessrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

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—GREAT NORTHERN LINE (few miles out).—Retail and pensing Business; returns average between £1,700 and 800; *gross profit* 40 *per cent.*; moderate rent; lease 15 years xpired; price £1,100, or near offer; large shop, double fronted.

—LONDON, S.W. (Residential Suburb).—Death vacancy; good-s Retail and Dispensing Business; prominent position; returns ut £1,300; *gross profit above the average of Retail trade*; modious shop and premises; held on lease; price £700; full stigation courted.

—LONDON, N.W. (Main Thoroughfare).—Good-class Dispens- and Retail Business; returns (present rate) £750; scope for siderable development; price £600 or near offer; large shop, l fitted and fully stocked, with large house attached.

—ESSEX.—Retail and Dispensing Business; established many rs and held by vendor 20; returns average £600 per annum; *profit* £220; comfortable residence; price £260.

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—LONDON, W.— (High-class Suburb).—Good-class Business, ail and Dispensing; returns (present rate) about £1,200 per um; full investigation courted; rent £36; price £600, or valua- of stock and fixtures and sum for goodwill to be arranged tably.

8.—KENT.—Ready-money Business; practically unopposed; returns £1,460; *profits large*; full investigation permitted; premises held on lease; terms, goodwill £100, stock and fixtures by valuation.

9.—HOME COUNTY.—Good-class Dispensing and Family Retail Business; returns steadily increasing, present rate over £700; *net profit* 33⅓ *per cent.*; well-fitted shop, fully stocked; roomy house; price about £500.

10.—EASTERN COUNTY (Large Town).—Old-established Business, Country Retail and Dispensing; returns average £2,273 per annum at fair prices; large shop, double fronted; rent £80; price £1,200, or valuation terms entertained.

11.—SUSSEX VILLAGE.—Mixed Country Retail Business, entirely unopposed; returns (present rate) about £900 per annum; *net profit* £320; double-fronted shop, fully stocked; roomy house; rent moderate; terms, valuation of stock and fixtures.

12.—NORTH-EAST COAST.—Old-established Business; held by vendor upwards of 37 years, now retiring; returns show a steady increase, over £800 last year; *net profit* £250; price £500; rent £50, including six-roomed house; nicely fitted and well-stocked shop.

13.—INLAND HEALTH RESORT.—Very old-established Business, Retail and Dispensing, situate in main thoroughfare; returns £610; *profits about half*; very few Patents sold; roomy house, with garden attached; moderate rent; price £400.

14.—NORTH OF ENGLAND (County Town).—General Retail, including Wines; returns last year over £1,000; *net profit* £343; lock-up Pharmacy; rent £29 per annum; terms, valuation of stock and fixtures.

VALUATIONS FOR STOCKTAKING.

lessrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

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£2,000 returns.—SOUTH.—High-class Retail and Dispensing in fashionable locality; net profit £400 under manager; finely fitted Pharmacy and commanding position; price about £1,500, or equitable goodwill and stock and fixtures at valuation.

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£600 returns.—CARDIFF.—Dispensing and Light Retail; not many Patents; qualified man could do £20 weekly very soon; price £250; stock and fixtures worth £400.

Valuations conducted upon the shortest notice at moderate fees.

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Private Address: 36 WOODSTOCK AVENUE, GOLDER'S GREEN N.W.

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A Register is kept of a large number of Businesses of ery class and size in town and country that are for sale at r on- able prices. Inquiries invited. Purchasers should notify the nd of business they desire, the locality preferred, and the a nt of capital they desire to invest.

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Have the following businesses for Disposal. (No charge to Purchasers.)

1.—WEST OF ENGLAND (Seaside Resort). — Good Family Retail and Dispensing Business; returns £1,850; scope for further extension; splendid position; large residence attached; price simply valuation of stock and fixtures; about £1,000.

2.—SURREY (Favourite Locality).—High-class Business, in excellent position; formerly doing £1,400, now under manager; handsome shop, fully stocked; large house; low rental; price £900, worth attention.

3.—SOUTH COAST.—High-class Dispensing and Light Retail; same hands many years, retiring; returns £1,450; net profit £355 clear; splendid position; scope for increase; price £875.

4.—OXON.—Old-established Light Country Retail Business, in fine position of good market town; returns £800, with scope for increase; double-fronted shop, well stocked; price valuation.

5.—DEVON.—Light Family Retail and Dispensing; charming locality; easily worked; returns £700; net profit £200; attractive Pharmacy, well stocked; good house; price £400 or valuation.

6.—SUSSEX.—Good-class Light Country Retail; no heavy trade; returns £700; net profit £200; good house and garden; modern attractive shop, fully stocked; price only £340, or valuation.

7.—LONDON, S.E.—Sound middle-class Cash Suburban Retail Business; no opposition; returns £1,460; net profit about £450; good house; attractive shop, well stocked; price £900, or £100 and valuation.

8.—LONDON, W.—Cash Retail and Prescribing Business, under manager; returns nearly £600; gross profit half; not on Panel; price £200.

9.—SOUTH WALES (Health Resort).—Light Retail, Dispen , and Prescribing Business in very best position; returns £2, ; net profit £650 clear; excellent house and shop; modern fi , heavily stocked; price £1,600; part can remain.

10.—NORFOLK.—Old-established Retail and Agricultural i- ness, in good market town; same hands many years; neglo ; returns over £800; net profit about £250; fine premises; a easily do £1,200; valuation only required, no goodwill.

11.—NORTHANTS.—Light Retail and Prescribing, with N. ; returns over £500; net profit £200; low rent; owner reti ; price £200, or close offer; worth seeing.

12.—GUILDFORD (near).—Good Light Country Retail; re e over £400; net profit £160; good house and garden; char g locality; price for quick sale £250.

13.—SOUTH WALES. — Unopposed Light Retail Busine n rapidly growing and prosperous district; returns last year , this year will do £750; low rent; nice modern house d pharmacy, fully stocked; price £600.

14.—KENT (10 miles out).—High-class Retail and Diepe business; returns over £700, increasing; good profits; fine and garden; stock and fixtures worth about £450; price £50

15.—LONDON, N.W.—For immediate Disposal, through se illness, good-class Business, in splendid main road pos returns £750; no cutting; stands to do £1,200; attractive well stocked; price £500 cash, or near offer.

16.—LONDON, N.E. — Cash Retail and Prescribing; no Panel; returns over £800; plenty of scope; net profit £ busy main road; large shop, fully stocked; price £425, or off

BUSINESSES WANTED.

Messrs. BERDOE & FISH, having recently been successful in disposing of a large number Businesses, are in immediate want of sound concerns, returning from £600 to £3,000. Cash buy waiting. Strictest confidence guaranteed; private register kept. Correspondence cordially invited.

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LANCASHIRE.—For absolute Sale, old-established Business in best position of growing town, convenient to Liverpool and Manchester; vendor retiring, having been in business over 30 years; price £225, or near offer; rent £40. "Retire" (100/30), Office of this Paper.

LANCASHIRE.—Old-established Chemist's Business, 30 years, for Sale, in populous and thriving place; turnover £14 per week; can be made do £20; on Panel, at present averaging £70s. a month; for immediate sale take £275 cash; a rare bargain for qualified man; no qualified opposition for over a mile. Refers to 232/16, Office of this Paper.

LONDON, N.W.—High-class Dispensing, Photographic, and Retail Business; splendidly fitted Pharmacy; heavily stocked; good residential locality; no close opposition possible; returns £1,000-£1,200, steadily increasing; rent £80; let off, 23s. week; living accommodation left; National Insurance practically nil; price £700; no agents. Apply, 102/10, Office of this Paper.

LONDON, S.W.—Old-established Retail Business for Disposal owing to death of proprietor; well stocked; low rent; price moderate. Further particulars on application, Sanders, 57 Old Town, Clapham.

NORTH OF ENGLAND.—Most desirable locality; good-class Family Retail and Agricultural Business; returns approach £3,000, with profits much above the average; fullest investigation offered; cash required about £2,400; valuation terms arranged; principals only dealt with. Address, 101/180, Office of this Paper.

YORKS (West Riding).—Ten miles from Leeds, in best position of main street in busy industrial town of about 25,000 inhabitants; returns about £800; profit over £300 without N.H.I.; no near opposition; owner wishes to retire; price £450, or valuation. 96/13, Office of this Paper.

YORKS.—Good genuine Business for Disposal; corner shop, three good windows, main road; returns last year over £1,000 under unqualified man; good Wine Licence (also for Spirits, not used); returns can be greatly increased under qualified management; splendid opening for Insurance Dispensing and Photographic goods; reason for selling; price £350; part may remain. "Zex," Raines & Co., York.

YORKSHIRE.—Light Retail, under assistant doing £700 per annum at good prices; with personal attention £20 per week could soon be done; at valuation of stock and fixtures, about £45; good house; rent low. "Yorks" (231/71), Office of this Paper.

YORKSHIRE.—Busy go-ahead industrial town; good-class Light Retail, Prescribing Business; very profitable; £4 a week profit; splendid residence, with every convenience; rent £35; established 50 years; only one change; terms, valuation, under £200, or stock reduced to suit purchaser; no goodwill. "Immediate" (100/37), Office of this Paper.

A WEST-END Pharmacy between Piccadilly and Oxford Street to be Sold; price £200, or nearest offer, as owner cannot attend to business; good opportunity for a qualified man; owner would sell to a diplomaed man only. Write, 232/21, Office of this Paper.

AS I am leaving the Drug trade, I am prepared to sell my Light Retail Business, returning nearly £1,100, at a nominal good-will and valuation of stock and fixtures, roughly about £700; the house is good and shop in good position of growing Midland market town. Apply, "Midland" (231/72), Office of this Paper.

EXCEPTIONAL opportunity of acquiring well-known, old-established Mineral Water Business in East Anglia, through death; plant and stock in excellent order; low rental; increasing returns. Full particulars against bank or business reference from "Executor" (97/19), Office of this Paper.

FIRST-CLASS Retail and Dispensing Business, in finest position, high-class town, near London; under manager last 5 years; energetic man would easily do £2,000; handsome premises, heavily stocked; good house; low rent; valuable lease; price £900; finest opportunity ever offered to smart man. Apply, "Auri" (101/18), Office of this Paper.

FOR immediate Disposal, old-established Chemist and Druggist Business in country district near Halifax; N.H.I. Dispensing and Wine Licence, no opposition. Apply, 87/30, Office of this Paper.

INTENDING to go abroad, I am wishful to find a purchaser for my Light Retail Business; very few Patents; returns are increasing, and will do so; position good and rent moderate; returns nearly £1,000; Liverpool. Apply, "Tinct." (231/73), Office of this Paper.

OLD-ESTABLISHED Retail and Dispensing Business, good house and warehouse, in main street, Clay Cross, Derbyshire; been neglected; splendid chance for young energetic man; good opening for Dentistry and National Insurance; small stock; price low. Apply, "Chislehurst," 65 Empress Road, Derby.

ON the Banks of the Thames; price £800; stock and fixtures estimated at £650; essentially Dispensing and good-class Family trade; returning £1,200 and yielding a clear income of £300 per annum after all expenses are paid, including rent; every investigation allowed. Apply, 232/71, Office of this Paper.

RETAIL and Dispensing Business, increasing; fine, attractive Pharmacy; excellent position; low rent; nice house; only changed hands once in 20 years; double fronted; good reasons for selling. "Cox" (98/13), Office of this Paper.

SMALL Cash Chemist's Business in Colliery district, including stock and fixtures and National Health Insurance, price £40. Henry Bradfield & Sons, Estate Agents and Valuers, West Gate, Mansfield.

SOUND Business for Sale; great opening for Horticultural Chemist; new market just commencing; Farming and Market Gardening; two markets weekly; shop opposite market entrance; large windows; present turnover £500, ordinary trade alone; Agricultural trade would double; several Proprietaries. Apply, 97/27, Office of this Paper.

VERY desirable Seaside Business offered through chronic sickness; opportunity rarely occurring; changed hands once in 30 years; takings (profitable) £1,400; just on season's threshold; genuine buyers commanding £900 can have frank particulars and photos. "Chemacist" (96/23), Office of this Paper.

£45. — Drug Stores, situated near Ealing; takings under female management £4 10s. to £5; rent £30; taxes £9; 6 rooms; stables at rear, now let, almost pay taxes; good opening for Dentistry and Panel; established 14 years; only wants seeing. 101/17, Office of this Paper.

£100 or offer.—Chemist's Business, busy locality near Wolverhampton; practically unopposed; returns over £300; big scope for Insurance yet untouched; county pays 100 per cent.; owner giving up must sell quick; good shop; rent £16 and rates; living premises. Apply, first instance, to King Bros., Wholesale Chemists, Wolverhampton.

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SPAIN.—Pharmacist desires Depot or Sole Agency for foreign Pharmaceutical Specialities, Alimentary Products, Perfumery, etc.; or would undertake manufacture and packing locally. Samples, catalogues, and correspondence in Spanish or French only to Mariano de la Vega, Botica del Carmen, Oviedo.

KEEN business man (28), late Sales Manager well-known Bond Street Proprietary house, opening offices in London, invites firms not represented in Great Britain to communicate with a view to Representation. Write, stating full particulars, "Agencies" (96/30), Office of this Paper.

SALES BY AUCTION.

BY ORDER OF THE TRUSTEES.
UNDER A DEED OF ASSIGNMENT.
13 JAMES STREET, HARROGATE
(opposite the North Eastern Railway Station).

The well-made Mahogany Fixtures and Fittings and Stock of a Chemist and Druggist, including a 17-ft. 6-in. Mahogany Back Fitting, fitted 86 Drawers, 2 Cupboards, and Shelves, a 10-ft. Mahogany Back Fitting, with Cupboards, Plate-glass Wall, Counter, and Centre Showcases, Mirrors, Nests of Drawers, Gas and Electric Fittings, Centre and Dispensing Counters, with Showcases and Screens, Airtight Window-enclosures, 26-in. Milner's Bent-steel Safe, expensive Microscope, 500 Stock Jars and Bottles, Sets of Scales, Weighing Machine, large quantity Wet and Dry Drugs, an X-ray Apparatus complete by H. W. Cox & Co., Gas and Electric Fittings, Steps, Chairs, Cash Till, Desks, Pill-making Machines, Ointment Press, etc. The clean and well-assorted Stock includes large quantity Proprietary Articles, Fancy Toilet Soaps, Brushes and Combs, Sponges, Perfumery, Toilet Preparations, Powders, Puffs, Patent Medicines, Pills, Tabloids, Ointments, Infants' Foods, Malt and Meat Extracts, Cod-liver Oil, Glycerines, Rubber Goods, Bandages, Flasks, and a large quantity Chemist's Sundries, etc., which will be SOLD by AUCTION by

MR. FRANK G. BOWEN, on the Premises, as above, on WEDNESDAY, May 27th, at one o'clock precisely. On view day prior and morning of sale.

Catalogues may be had of Messrs. Francis Nicholls, White & Co., Chartered Accountants, 14 Old Jewry Chambers, London; of Robert Peveler, Esq., Incorporated Accountant, Albert House, Harrogate; and of the Auctioneer, 62a Aldersgate Street and Hare Court, London.

FOR SALE.

FOR Disposal, the whole of the interest in a small Proprietary, together with registered Trade-mark, Stock, Utensils, and printed matter. Apply, 232/710, Office of this Paper.

NEARLY new Cash Register for Sale. Write, "W. A.," 89 Stewart Road, Stratford, E.

SHOPFITTINGS (Mahogany), comprising Shelving, Drawers (101) and Lockers underneath, Shop Rounds, Ointment Jars, Glass Cases, Carboys, Scales; very cheap. 55 Shaw Street, Liverpool.

TO LET.

NEW SOUTHGATE (facing Station). — Handsomely fitted Chemist's Shop and House; good opening for smart man; Dentist would rent two rooms; rent £50 per annum. Baynton, Auctioneer, 68 Myddleton Road, Bowes Park.

TO Let, in a rapidly growing shop centre in the Undercliff, Felixstowe (100 yards from Pier and Sea), a new Shop, with residence over planned for season letting; excellent opening for a Chemist; no such business within three-quarters of a mile. Apply to Tuddenham, Builder, Felixstowe.

SHOP to Let; best position; fine opportunity for Chemist; population 8,000; only one Chemist. Apply to J. Meikle, 11 Norwich Road, Cadoxton, Cardiff.

BUSINESSES WANTED.

BUSINESS wanted, good-class Dispensing and Prescribing, where an Assistant is kept; or Partnership entertained. Please write full particulars, 98/28, Office of this Paper.

APPRENTICESHIPS.

YOUTH (15) desires position as Apprentice in London. "Barium" (98/4), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

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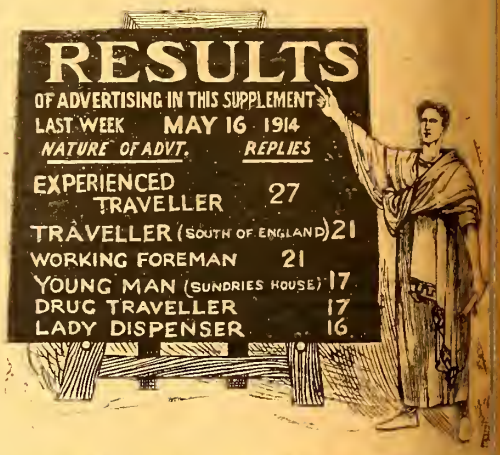

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RETAIL.

COUNTY OF SURREY.

BROOKWOOD ASYLUM, NEAR WOKING.

APPOINTMENT OF DISPENSER.

THE Brookwood Standing Sub-Committee are prepared to rec applications for the appointment of Dispenser to Brook Asylum at a salary of £120 per annum, rising by annual in ments of £10 to £150. Applicants must be duly qualified pensers. The person appointed will be required to take ch of the Dispensary, the Drugs, and the Surgical Instruments Appliances, and to carry out his duties under the direction of Medical Superintendent and Medical Officers.

The appointment will be subject to the Asylum Officers' Su annuation Act, 1909.

Applications, stating age, qualifications, and experience, toge with testimonials, should reach the undersigned not later Tuesday, 9th day of June, 1914.

REGINALD A. HODGES.
Clerk of the Visiting Committe

County Hall, Kingston-upon-Thames,
16th May, 1914.

ABERDEEN.—Qualified Assistant wanted; young man with Counter experience; state age, height, when disengaged, give full particulars of experience. Apply, Hunter, Che 111 Union Street.

BIRMINGHAM Suburb.—Qualified Assistant wanted for med class business, with N.H.I. Dispensing, etc.; no heavy tr outdoors; age immaterial; every consideration given to rel man seeking permanency. Apply, with full particulars, in instance, Charles L. Moores & Co., Druggists' Sundriesmen Bromsgrove Street, Birmingham.

BIRMINGHAM (near).—Assistant or qualified (N.H.I.) Dispenser for Wednesday evenings. M. H. Griffith, P macist, Great Bridge.

LOWESTOFT AND NORTH SUFFOLK HOSPITAL.

A LICATIONS are invited from qualified (male) Dispensers r the post of Dispenser.
Th applicant must be prepared to commence his duties on he 2 h June next.
Sa y at the rate of £100 per annum, without board or esid e.
Th ppointment will be determinable on either side at three alon r months' notice.
Ap cations, with copies of not more than three testimonials, nd ting qualifications and experience, must be received by the lerk ot later than the 11th June next.
W. BRYAN FORWARD, Clerk.
148 ondon Road North, Lowestoft,
1 h May, 1914.

B IRMINGHAM.—Elderly qualified Chemist; comfortable per- nency for capable, active man. "Birmingham" (99/42), fico this Paper.

B RIXTON DISPENSARY, Water Lane, S.W.— Wanted, a Dis- per; Hall qualification; hours (ordinarily) 6 per day; no unda work; near Schools of Pharmacy; good opportunity for harm eutical Student; ladies ineligible; salary to commence 75, ing by £5 annually to £105. Apply, stating age and xperi e, to the Secretary.

CARDIFF.—Branch Manager; qualified; permanency; married, to live on premises; excellent house; good locality; must e a ood Salesman and Dispenser; also non-registered, to anag Drug-store; married preferred, to live on premises; ashin obliging, and energetic; one with knowledge of Optics refer t. Gwilym Evans, Ltd., Chemists, 158 City Road, Cardiff.

CITY.—Part-time Junior Assistant required; evenings free. Ap ly E. D Foster, 56 Bishopsgate.

CORNWALL.—Immediately, for season, unqualified Assistant; go all-round experience; outdoors. Full particulars and lary R. E. Pearce, Chemist, Newquay.

CROYDON BOROUGH.—Required immediately, thoroughly capable A stant (qualified or unqualified), not over 30, for good- ass Dispensing business. Apply, with full particulars of ex- rienc age, height, salary required (indoors), G. H. F. Dier, harm st, Crowborough.

DEAL.—Capable Assistant (qualified or unqualified) wanted for good class business, Dispensing and Counter. Send full par- ulars f experience, etc., and state salary required (outdoors), E. D son, 4 Victoria Road, Deal.

EAST DURNE.—Wanted, unqualified Assistant, about 23, for Ph ographic and Light Retail; good salary to competent an. Ir vin, Chemist and Optician.

EAST N COUNTIES.—Wanted, an unqualified Assistant for a goo class Mixed Country business; an accurate and reliable rker o Insurance Dispensing; short hours; no Sunday, night, holid duty; comfortable berth; outdoors. Apply, with usual rticul s, age, experience, when disengaged, and salary required, 99, 3 ffice of this Paper.

EXETER.—Junior Assistant (outdoors), until end of September; mus be a good Dispenser and Stockkeeper; easy hours; four pt. A ly, with usual particulars and salary required, to Mr. d, 2 heen Street, Exeter.

FREEWICH, S.E.—Smart all-round Assistant, qualified, for quic business; Counter, Dispensing, and Window-dressing; d an progressive salary to experienced man; outdoors; one ole d and half-day off fortnightly. Apply, giving full par- ulars to experience, salary required, etc., to Milner, 209 afalga Road, Greenwich.

GRIMSBY.—Wanted at once, Manager for Branch; qualified pref ed; N.H.I. Dispensing; no Sunday duty; also Man- r for nside (Sutton, Lincs); Prescribing and Photography ential. Apply, stating age, salary required (outdoors), experi- e, ref nces, and usual particulars, to Heely, West Street, ord, L s.

HERNE BAY, Kent.—Smart, competent Assistant; good Counter and Photographic experience. State full particulars, man, emist, Herne Bay.

HUDDERSFIELD.—Wanted, qualified Assistant; able to take charg in absence of principal; good-class business; three er ass ants kept; easy hours. Apply, stating salary and al par ulars, to Walshaw, Pharmacist, Huddersfield.

ILFRACOMBE.—Smart, competent Assistant; good Counter and Phot raphic experience. State age, salary required (out- rs), an enclose photo if convenient, to Reed, Chemist, Ilfra- be.

KENT.—Wanted immediately, capable Junior (indoors) for Light Retai Apply, with full particulars, and enclose photo, to Johns, High Street, Gravesend.

METROPOLITAN BOROUGH OF SOUTHWARK.

APPOINTMENT OF LADY DISPENSER AND SECRETARY.

The Council are prepared to receive applications for appointment as Lady Dispenser and Secretary, at a salary of £100 per annum.

Candidates must be experienced in Dispensing, and should be qualified Shorthand-Typists.

Applications, on forms which may be obtained at my office, accompanied by not more than three recent testimonials, to be sent to me, endorsed "Lady Dispenser and Secretary," not later than noon on Monday, June 15, 1914.

P. H. GRAY,
Town Clerk.

Southwark Town Hall,
Walworth Road, S.E.,
May 14, 1914.

LONDON.—Qualified Manager for a quick cash business; excellent opportunity for a smart married man desirous of settling down and making a lucrative permanency. State age and when at liberty, 99/41, Office of this Paper.

LONDON, Eaton Square.—Junior, about 22; indoors: time for study as arranged; good-class Dispensing. Apply to W. Hucklebridge, 116 Ebury Street, Eaton Square, S.W.

LONDON.—Unqualified Assistant required for modern Cash business; Counter and Dispensing experience essential; permanency. State age and when at liberty and salary required, 99/44, Office of this Paper.

LONDON (City). — Wanted, Locum, qualified, for about four weeks, commencing Monday, August 31; hours 8.30 a.m. until 7 p.m., Saturdays 1.30 p.m.; no Sunday duty; salary £3 per week. Apply, stating full particulars, age, etc., to "B." (98/24), Office of this Paper.

LONDON Suburb.—Qualified Branch Manager for first-class Retail, Dispensing, and Photographic; outdoors; good prospect and permanency for a competent, reliable, and energetic man. Give full particulars, including age, height, experience, salary, references, photo, to 100/10 Office of this Paper.

LONDON, N.—An experienced Assistant; also a Junior; good opportunity to learn Dispensing; two assistants kept. Apply (letter only), stating experience, names of references, when disengaged, and salary required (indoors), "Chemist," 82 Bayston Road, Stoke Newington, N.

LONDON, N.E.—Qualified elderly, or one seeking light permanent employment: easy hours arranged. State salary, references, etc., "Senex" (102/6), Office of this Paper.

LONDON, N.W.—Lady Dispenser required. For particulars apply Dr. Sealy, 32 Brondesbury Road, Kilburn.

LONDON, N.W.—Assistant wanted (outdoors) for good-class business. Please state age, height, experience, and salary required, photo if convenient, D. T. Davies, Pharmacist, 567 Finchley Road, Hampstead, London, N.W.

LONDON, S.E.—Wanted for first week in June, thoroughly reliable Junior Assistant; outdoors; unqualified; London experience not essential. Apply, with full particulars of age, height, experience, references, and salary required, to Messrs. Cave, Austin & Co., Ltd., 164 Rushey Green, Catford, S.E.

LONDON, S.E.—Locum, unqualified (outdoors), from end of June; energetic and reliable. 98/14, Office of this Paper.

LONDON, S.W.—Unqualified Junior Assistant required in June. Apply, giving usual particulars and salary required (outdoors), to A. J. Phillips, 156 Cromwell Road, South Kensington, S.W.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

LONDON, S.W.—Unqualified Assistants, not under 25, with good-class Dispensing experience. State full particulars, age, salary required (outdoors), etc., to Arthur T. Gray, 5 High Street, Barnes.

LONDON, S.W.—A vacancy will shortly occur in Dispensing business for a qualified man of good appearance and address as Senior, with view to taking complete charge. Apply, giving particulars of age and experience, to "Radium" (100/13), Office of this Paper.

LONDON, S.W.—Qualified Manager for neglected branch shop in Wandsworth; young married man preferred; salary £2 10s. weekly, with good house over shop and liberal commission on increased business; splendid opportunity for man not afraid of work. 101/39, Office of this Paper.

LONDON, W.—Qualified Assistant required immediately; good West-End experience essential. Apply, The Manager, Heppell & Co., 26 Piccadilly.

LONDON, W.—A smart young unqualified Assistant wanted immediately. Apply, personally or by letter, Spink & Co., 27 Tottenham Court Road.

MANCHESTER District.—Young qualified Assistant wanted; salary £3 per week and commission; must be quick and reliable and a good Salesman. State age, height, experience, references and photo, 97/110, Office of this Paper.

MANCHESTER.—Qualified Assistant wanted; outdoors; please state experience, with reference, age, height, and salary required. Apply to "Cascara," c/o Quilliam & Co., Ltd., Canterbury Works, Victoria Bridge, Manchester.

MANCHESTER.—Mottershead & Co. require an experienced unqualified Assistant. State fully experience, age, and salary expected (outdoors).

OLDHAM.—Unqualified Assistant for quick Cash business; must be reliable and a good Salesman; salary 30s. per week and commission. 97/11, Office of this Paper.

OXFORD.—Qualified Assistant wanted to take charge of Branch; permanency; age 25 to 35. Usual particulars to J. Burbank, 116 Walton Street, Oxford.

PENZANCE.—Wanted, temporary Junior Assistant for six to twelve weeks; outdoors; no Sunday duty. Apply, stating full particulars and salary required, to S. Carter, Chemist, Penzance.

PERTH NEW INFIRMARY (to be opened in June).—The Directors invite applications for the post of Dispenser, who could also assist with the Developing of Photographic Plates, etc., in the X-ray Department. Applications, with testimonials, and stating salary expected, should be lodged with R. Martin-Bates, Solicitor, the Secretary, 44 Tay Street, Perth, not later than 29th May.

ROYAL SOUTH HANTS AND SOUTHAMPTON HOSPITAL.—Required, a Dispenser (male); candidates must be registered, hold certificates from a recognised School of Pharmacy of the United Kingdom, and be willing to engage for twelve months; salary £80 per annum, with rooms, board, and washing; applications, stating age, with printed copies of testimonials (limited to five), to be sent to the undersigned at once; duties to be taken up on June 1. T. A. Fisher Hall, Secretary. May 6, 1914.

SHEFFIELD.—Qualified Dispenser (male or female), about 30; also unqualified (26); outdoors; knowledge of Photography essential. Apply, stating full particulars of experience, salary required, and enclose photo, H. G. Williams, 118 The Moor.

SHREWSBURY.—Wanted, Junior Assistant; outdoors; short hours; no Sunday duty; one just finished apprenticeship will suit. Please give full particulars in first letter, age, height, and salary required, to A. Williams, Chemist, Castle Street, Shrewsbury.

SOUTH KENSINGTON. — Wanted early in June, outdoor Assistant; must be good Dispenser and accustomed to high-class business. Apply, with usual particulars and photo if possible, to "B. R. W.," Stickland & Co., 23 Cromwell Place, South Kensington, S.W.

SOUTH KENSINGTON.—Required on June 22, smart unqualified Assistant age about 30, with high-class Dispensing experience; quick and accurate worker wanted at a commencing salary of £2 7s. 6d. (outdoors). State age, height, and full details of last three situations to Alfred Tennant, M.P.S., 29 Sussex Place, S.W.

THE BATTERSEA DISPENSARY FOR THE PREVENTION OF CONSUMPTION.—Wanted, Part-time Dispenser; salary £50 per annum; hours 2.30-7.30 or 8 p.m. on Mondays, Tuesdays, Wednesdays, and Fridays; Thursdays 7.30-10.30. Apply, Miss E. Brown, Hon. Secretary, 179 Battersea Bridge Road, stating certificates, experience, and age.

TORQUAY (outdoors).—Qualified Assistant, competent to m Branch, Light Retail and Dispensing. Apply, stating height, experience, and salary required, enclosing photo, Fre March, 90 Belgrave Road, Torquay.

YORKS (West Riding).—Unqualified man (single), capa taking charge, required for Relief work; permanen progressive berth afterwards if results are satisfactory. age, experience, and salary required, "Locum" (99/40), of this Paper.

YORKS (West Riding).—Elderly qualified Chemist req comfortable permanency; light work. "Elderly" (9 Office of this Paper.

A JUNIOR Lady Dispenser needing experience; part-tim days a week; small salary given. Apply, Medical M Quadrant Street, Old Canning Town, E.

ASSISTANT, Junior; qualified preferred; first-class expe good opportunity for advancement. Apply, R. A. Rob 195 Brompton Road, London, S.W.

ASSISTANT wanted, City Pharmacy (Ireland), good Ext and with knowledge of Vulcanite working preferred. with copies of testimonials, stating age, salary, experienc 96/12, Office of this Paper.

BRANCH Manager, accustomed to good-class Retail and I ing, with Photographics; good salary and permane suitable man. Apply, stating age, height, salary required, p experience, single or married, and enclose photo, to Mr. Evans, Chemist, Margate.

CAPABLE Assistant, about 25; accustomed to N.H.I. I ing; outdoors. Please state experience and salary r Leighton, 565 Lea Bridge Road, Leyton.

COMPETENT Assistant (outdoors) for a Dispensing b permanency. Nowell, 97 Broadway, Leigh-on-Sea.

COMPETENT Dispenser-Assistant (Minor qualification) for London business; whole day off weekly; two weeks vacation; minimum salary 55s. per week. Apply, by stating age, experience, references, and when disengag "Tabellæ" (99/35), Office of this Paper.

DENTAL Pupil.—Dental Surgeon, L.D.S., Eng., has for a Pupil; up-to-date tuition; especially Crowns and work; easy access of Hospitals; reasonable premium. 8 Side, Clapham Common, S.W.

DISPENSER, Lady preferred, qualified under Insura for Yorkshire county business; if town life essenti apply. 233/7, Office of this Paper.

DISPENSERS.—A number of women Dispensers are temporarily in connection with the pricing and exa of Chemists' Prescriptions. Applications, on foolscap the applicants' own handwriting, should state qualificat perience, and age, and be accompanied by copies of than three testimonials and forwarded addressed, 98/1 of this Paper.

EARLY next month, unqualified Assistant, age about doors; knowledge of Welsh not necessary. Meyle macist, Milford Haven.

FRANK A. ROGERS, 327 Oxford Street, W., has for a qualified Assistant; outdoors. Please give ticulars of experience, salary, etc.

IMPROVER or Junior required; indoors; time for recreation. State salary, Davies Bros., Chemists, Gc

JUNIOR Assistant; outdoors; Retail, Dispensing, a graphic; weekly half-holiday; no Bank Holiday du particulars, 97/12, Office of this Paper.

JUNIOR unqualified Assistant; outdoors; permanency class business. Full particulars, age, salary, etc., Loughborough Park, S.W.

JUNIOR Assistant: outdoors; no Sunday duty; we holiday. State age, experience, salary required, ences, J. A. Moore, Chemist, Grimsby.

JUNIOR, smart, gentlemanly; good Dispenser, Conte Window-dresser. Particulars of previous exper height, salary, and enclose photo to Manager, Hedges Ltd., 10, 11, 12 Dale End, Birmingham.

JUNIOR for good-class Retail and Dispensing busi Schools. State age, height, salary required, and J. S. Breese, Pharmaceutical Chemist, Rusholme, Manc

JUNIOR Assistant; outdoors. State age, experien S. P. Sayers 7 Brent Street, Hendon.

MMER Season in West of England Seaside Resort.—Junior required immediately. Fullest particulars of age, experience, etc., to "B.," c/o Messrs. Evans Sons Lescher & Webb, 60 Bartholomew Close, E.C.

NIOR Assistant wanted (outdoors), having good Dispensing nd Counter experience, now or after Whitsun; business Retail and Dispensing; hours light; half-day Wednesdays. stating age, height, experience, and salary required, to Hoyle, Chemist, Southborough, Tunbridge Wells.

NIOR or unqualified Assistant required for the season in good-lass Retail; good home; indoors. Please state salary red, experience, and age, Thorp, Ph. Chemist, Bognor.

NIOR Assistant (outdoors), unqualified, with time for study f required. State usual particulars, with photo if possible, hompson, Chemist, Sparkbrook, Birmingham.

NIOR or Improver for good-class and Mixed Country busi-ness; outdoors. Apply, Horrocks, Chemist, Knutsford.

NIOR Assistant required for end of May; outdoors; short hours; half-holiday weekly. State full particulars and salary red to Allen & Neale, Chemists, King's Lynn.

DY Dispenser wanted for a few weeks from June 5 for Medical Practice in small town about 30 miles from London, y, stating age, qualifications, experience, salary required oors), etc., to 96/14, Office of this Paper.

DY Dispenser, experienced in private work, particularly Book-keeping. Apply, Dr. Job, Newark, Notts.

DY Pharmacist, with Minor qualification, required to take harge in Dispensary of large Hospital in Midland City, st 22 to September 19; two Juniors kept. Apply, with full ulars, 96/33, Office of this Paper.

LCUM wanted from May 30 for a week; outdoors; Assistant kept. Full particulars in first letter, or personal call. Saw-Chemist, 795 Lea Bridge Road, Whipps Cross, Walthamstow.

ANAGER.—Hedges (Chemists), Ltd., require services of a apable Chemist, experienced in good-class business, to take e of busy Branch. Particulars, age, height, salary, and se photo, Manager, Hedges (Chemists), Ltd., 10, 11, 12 End, Birmingham.

ANAGER (qualified) for Branch, pleasant suburb; lock-up shop; permanency. State usual particulars, with photo if ble, to C. Thompson, Chemist, Sparkbrook, Birmingham.

ARRIED or single; unqualified Assistant, Midlands, age about 30; live off premises; pleasant locality; Dispensing experi-essential; must be first-class Counterman and able to take e charge. Full particulars in first letter, 100/3, Office of this er.

SSRS. COOPER, SON & CO., LTD., require a qualified Dispenser. Apply, with full particulars, to Mr. E. J. Jenkins, loane Street, S.W.

N.H.I.—Well-known firm require smart young man as Script Pricer at their offices. Apply, "Pricer" (99/43), of this Paper.

RT-TIME Assistant wanted; indoors; comfortable home; principally evening duty; suitable for Students. 175 Uxe Road, London, W.

ALIFIED Assistant for high-class Dispensing and Photo-graphic business; permanency to suitable man; outdoors. age, height, salary, references, with photo, when disengaged, ster & Co., 2 College Crescent, Hampstead.

ALIFIED Assistant; reasonable hours, with prospect of ad-vancement to a worker. Kindly state in brief essential par-ars of experience, etc., to Mr. Wm. Shadforth, Pharmaceutical hist, 63 Grove Road, Bow, London, E.

ALIFIED Assistant, June 2, with good Counter and Dispens-ing experience and knowledge of Photography; indoors; pro-tive salary. Apply, stating age, height, reference, and photo, iver, Chemist, Maidstone.

ALIFIED Assistant wanted by June 2; Dispensing and General Retail; easy hours; weekly half-holiday; Junior kept. y, giving age, references, salary required (indoors), etc., to unbridge, Pharmacist, 39 Castle Street, Reading.

ALIFIED Assistant, age about 24, for Dispensary and Front Counter; hours 8.15 a.m. to about 6.15; Saturdays clock p.m.. State experience and salary required to "T. M.," or Army and Navy Stores, Ltd., 15 Regent Street, London, S.W.

WANTED early, qualified man (outdoors), about 24 or 25, for up-to-date Light Retail and Dispensing, with Photo-graphics; Sunday duty, three hours every third week. Apply, with full particulars, C. Breese, 73 Mitcham Lane, Streatham, S.W. 'Phone 446 Streatham.

QUALIFIED Manager wanted for Chemist's shop in East End; middle-aged preferred; good salary for suitable man. Apply, 316 Commercial Road, E.

QUALIFIED Manager required for branch near Cardiff; modern Cash business, with Photography; a good opportunity for a reliable, energetic man; outdoors. State full particulars in first letter of age, height, experience, salary required, addresses of last three employers for references, and enclose carte to W. T. Hicks & Co., Duke Street, Cardiff.

QUALIFIED Assistant for good-class Retail and Dispensing business; reasonable hours; state full particulars as to salary required, references, etc.; in or out doors. Parsons & Happold, 182 Westcombe Hill, Blackheath, S.E.

QUALIFIED Dispenser required in a London establishment; business hours 8.45 to 6.15, Saturday to 1 p.m.; no Sunday duty; initial salary 50s. per week. Apply, by letter, stating age, to "Rodex," c/o Street's, 30 Cornhill, E.C.

QUALIFIED Assistant for the season for high-class Dispensing and Retail business; comfortable berth; moderate hours; weekly half-holiday; little Sunday or evening duty. Apply, giving full particulars, stating age and salary required (outdoors), to Bound, Pharmacist, Llandrindod Wells.

QUALIFIED Assistant for Retail and Dispensing business. State when at liberty, with all particulars as to age, salary ex-pected, etc., to Mason & Co., Ltd., 80 King Street, South Shields.

QUALIFIED; Light business; suit lady or elderly man; short hours; Paddington district. State salary required and full particulars, 100/35, Office of this Paper.

QUALIFIED Dispenser, about 30 (not a lady) wanted for four weeks, commencing June 27; recent references essen-tial; don't send testimonials. Pinch & Co., Chemists, Bath.

SEASON Assistant for Dispensing, Light Retail, and Photo-graphic business. Apply, stating age, height, and salary required (outdoors), to Crang, Chemist, Ilfracombe.

SENIOR Assistant, about 30 to 35, wanted as chief at Counter; must have good experience at Counter work, Prescribing, N.H.I. Dispensing and Pricing, Window-dressing, the sale of Photographic goods, making simple Galenicals, etc.; outdoors; near City; hours 10 a.m. to 10 p.m., Saturdays 11 p.m.; Thurs-days 8.30 a.m. to 1.30 p.m.; alternate Sunday evenings 6 p.m. to 10 p.m. Give full particulars as to experience, references, age, height, if married, salary required, when disengaged, etc. (by letter only), to J. Beedzler, "Golden Key," 20 Norton Folgate, London, N.E.

SMART qualified Chemist wanted for busy industrial centre; outdoors; accustomed to good-class Cash trade; applicants please state fully salary required, references, experience, and when disengaged; also one or two unqualified men. "Superinten-dent," P.O. Box 141, Leeds.

SMART Assistant wanted early; good Counter and Photographic experience. Apply, giving full particulars, Bayley, Chemist, Herne Bay.

UNQUALIFIED Assistant; outdoors. W. K. Somerton, Phar-macist, 357 Battersea Park Road, London, S.W.

UNQUALIFIED and qualified Assistant; outdoors; not any Sunday duty; close one day weekly at 1 o'clock; also qualified Assistant to manage Branch; outdoors; hours as above. State salary required in first letter, and say age, height, and experi-ence, Hooper's Drug Stores, Ltd., 291 Rye Lane, S.E.

UNQUALIFIED Assistant wanted, outdoors, reliable, with knowledge of Photography; permanency to suitable man. Apply, with full particulars, salary required, etc., to W. H. Stones, 21 Tacket Street, Ipswich.

W. CHAS. SAYERS, 63 High Street, Lewisham, S.E., requires a Junior Assistant; outdoors; permanency. Please send full particulars with application.

WANTED, an unqualified Junior as Locum for six or seven weeks starting June 7; good salary for suitable man. Apply, stating usual particulars, to W. Hibbert & Son, Neath.

WANTED, unqualified Assistant for permanency; age 24-30; N.E. London. Apply, "Orthos" (96/37), Office of this Paper.

WANTED about June 1 for five weeks, an Assistant; qualified preferred; accustomed to high-class business. Please state full particulars in first letter to Gibbs & Gurnell, Chemists, Ryde, I.W.

WANTED, Junior Assistant for Season: Light Retail, Dispensing, Photography. C. Gascoigne, Pier Plain, Gorleston-on-Sea.

WANTED by June 20, Junior Assistant for Stock, Counter, N.H.I. Dispensing, etc.; indoors, bedroom provided out. Watson's, 100 Mitcham Road, Tooting, S.W.

YOUNG qualified Assistant for Light business; no Sunday duty; easy hours; excellent bathing and boating. State terms and particulars, Crick, Maldon, Essex.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

SOUTH COAST.—Traveller wanted to call on Chemists and Stores; must have connections. Apply, 95/22, Office of this Paper.

AN English house for Lozenges and Pastilles (medicated) requires an experienced Traveller for Scotland, to call upon Chemists, etc.; good terms to one with connection. State full particulars to 225/30, Office of this Paper.

COUNTER hand, aged about 23, required on Dry Floor of London Wholesale house. State previous experience and wages required to 99/33, Office of this Paper.

COUNTERMAN (Improver), some experience in Wets and Drys, wanted by Manufacturing Chemists; age 17 to 21. Write, stating experience, wages required, references, etc., to 98/27, Office of this Paper.

DRY Counter.—Competent Assistant wanted by firm of Manufacturing Chemists; one used to finishing off Wet and Dry goods. State age, experience, and wages expected to 230/53, Office of this Paper.

EXPERIENCED Traveller wanted to represent first-class house in London, West, and South of England for Medicated Lozenges, Pastilles, etc., etc.; liberal terms to good man. Apply, with full details in confidence, to 225/300, Office of this Paper.

INVOICE Clerk, competent man, required; must have sound experience of the Wholesale Drug trade. Apply, giving full particulars, age, salary, etc., "London" (232/15), Office of this Paper.

INVOICE Clerk, experienced Junior, wanted by old-established Wholesale Druggists, South London. State age, experience, and salary required, to 100/21, Office of this Paper.

LABORATORY.—A firm of Wholesale Chemists require an Assistant with experience in the manufacture of Tinctures and similar preparations. 98/3, Office of this Paper.

PHARMACEUTICAL Chemist required by a firm of London Manufacturers; must be thoroughly up to date, able to manufacture, and assist in the marketing of genuine Proprietary Medicines and have a sound knowledge of Emulsion-making; this affords a good opening for trustworthy, hard-working man with original ideas. Write, stating age, experience, and terms, to "Alpha," Box 1529, Willing's, 125 Strand, W.C.

PHARMACIST, age about 25, to interview Doctors and Chemists for Manufacturers of high-class Pharmaceuticals. Give previous record and salary required to 232/18, Office of this Paper.

REQUIRED immediately, a qualified Assistant, with knowledge of Therapeutics, to visit Doctors and Chemists. Apply, giving full particulars, to Box 447, Matthews' Advertising Service, Staple Inn Buildings, Holborn, W.C.

SECOND Invoice Clerk wanted. Apply, by letter only, Thos. Hodgkinson, Prestons & King, 262 Bishopsgate, E.C.

WANTED by a firm of high repute, gentleman of good addr to call on Medical men in London and larger provinc cities to introduce a new remedy; only those with good experie and references need apply; engagement for one year certain; g remuneration. 231/13, Office of this Paper.

WANTED by Manufacturing Chemist in London, a smart Jun for Returns Clerk; one who is capable of dealing with detai making claims, etc., without supervision. Apply, 100/20, Offi of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or le beyond, prepaid. The Advertiser may, if preferred, have repli addressed to this Office, and forwarded on payment of an addition charge of 6d.

BOMBAY.—Qualified Assistant wanted for a first-class priva British firm of Chemists; age not over 30; three year agreement; salary £200 first year, £220 second year, £240 thi year; hours 9 a.m. to 6.30 p.m.; passage paid out and hon by P. & O. steamship. Apply, with copied testimonials and phot to "R. L.," S. Maw, Son & Sons, 7/12 Aldersgate Stree London, E.C.

BRITISH EAST AFRICA.—Qualified Assistant, with good al round experience and knowledge of Photography; unmarri and under 30 preferred; three years' agreement; passage pa out; salary £20, £22 10s., and £25 per month for first, secon and third years respectively. Apply, with copies of testimonial to "Zebra," c/o Tozer, Kemsley & Fisher, Ltd., 84 Fenchur Street, London, E.C.

CHINA.—Drug Warehouse Clerk, experienced in keeping Stoc books and filling Orders; age not over 30; good salary passage paid out and home; 4 years' agreement. Addres "China" (98/26), Office of this Paper.

INDIA.—Required shortly, a first-class qualified Assistant, ag about 23, for English Chemists doing high-class trade; goo salary and prospects for right man; four years' agreement passage paid both ways. Write, giving full particulars c qualifications and experience, to Indo Burma Co., Ltd., 108 Woo Exchange, E.C.

JAPAN.—Qualified Assistant, about 30 years of age; four years agreement; salary £144 first year, advancing £12 annually to £180, with residential quarters and board, also a commissio on net profits; second-class passage paid *via* Siberia, and retur passage home if agreement completed. Apply, with copied test monials and photo, to "R. L.," S. Maw, Son & Sons, 7/1 Aldersgate Street, London, E.C.

PARIS.—Wanted, competent Assistant, accustomed to a good class Dispensing and Counter business; outdoors. Reply t "W. G." (87/26), Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replie addressed to this Office, and forwarded on payment of a additional charge of **6d.**

[HOME.] RETAIL.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box number being intended exclusively for specific answers to particular advertisements. The Publishe reserves the right to open and refuse to forward any communica tions received which he may consider contrary to this rule.

A PHARMACIST (25), of good address, desires berth with prospects of advancement, either Wholesale or Retail, where hours are reasonable; must be London. "Endeavour" (100/27), Office of this Paper.

ASSISTANT or Dispenser; first-class experience; disengaged. "Dispenser," 58 Malvern Road, West Kilburn.

ERTISER, 50, desires immediate engagement; tall, gentlemanly appearance and address; references. "Ph.C.," 91 Street, S.W.

ISTANT; 22; tall; 6 years' experience; disengaged June 20; excellent references; London or South Coast preferred, but not essential. Please state hours, salary, 97/1, Office of this Paper.

ISTANT, Locum, or Manager; qualified; could invest cash £250. "Pharmacist," 408 Uxbridge Road, W.

MIST (Major) desires post. Full particulars, "Chemist," College Road, Ripon.

MIST (Minor) open to purchase small interest in brisk business; varied experience; single. 99/50, Office of this Paper.

MIST Assistant, qualified, for small business; also an unqualified Assistant. Apply, 220 Edgware Road, W.

TISTRY, Pharmacy, Optics, etc.; Physician's Surgery, prescribing experience; single-handed management; non-reg. 100, Office of this Paper.

ENGAGED May 22; qualified; Locum; age 38; London and provincial experience. 4 Citadel Terrace, Plymouth.

ERLY; qualified (Minor and Apothecaries' Hall); active; good references; London, Suburbs, or small country town preferred. "Vera," 77 Cricket Field Road, Hackney, N.E.

NINGS; three, four, or more weekly; qualified. "Chemist," 29 Mortlake Road, Ilford.

NINGS; Insurance Dispensing; quick, experienced, qualified. "Dispenser," 115 Scott-Ellis Gardens, St. John's Wood.

ERIENCED lady Dispenser, used to N.H.I., requires position near Liverpool. 25 Cecil Road, Seaforth, Liverpool.

ERIENCED Chemist (Minor), 41, not in very good health, seeks permanent post in a useful capacity; single; moderate terms. "Employment," (99/5), Office of this Paper.

NCH Pharmacy Pupil, 21, seeks situation in English pharmacy (London or country) on mutual terms; would work for six months for board only; good references. Delafosse, 5 Place Saint Eloi, Rouen, France.

TLEMAN, 27, desires post as Dispenser; 10 years' experience; competent Dresser and experienced Motorist; abstainer, and best references. 87/38, Office of this Paper.

IDAY relief; evenings only, two or three weekly accepted; qualified; reliable; experienced. "Minor," 12 Tyrwhitt Road, Brockley, S.E.

IDAY Relief, Managing Assistant; unqualified; town or country; Agricultural; good Prescribing and Dispensing experience; tactful; expert Window-dresser; disengaged May 9; or permanency. "Yorkshireman" (100/24), Office of this Paper.

OVER; age 21; 4 years' Hospital experience; capable Dispenser; well recommended; anxious for Retail experience. "Pir" (97/23), Office of this Paper.

NSRANCE Dispensing; Part-time; Minor qualifications. "Chemist," 28 Ashbourne Road, Mitcham, S.W.

JOPPYE, 33 Louisville Road, Balham, qualified, is open to engagement; moderate terms for short hours.

JUNIOR; 20; smart appearance; good Dispenser; state salary and hours; outdoors; Exeter district preferred; disengaged July 6. 96/18, Office of this Paper.

LADY Dispenser (unqualified) desires engagement with Chemist; London preferred; Bookkeeping; good testimonials. "M. H.," 11 Cumberland Road, Brighton.

LADY Dispenser (Hall qualification) desires post; qualified nurse; good Dispensing and Surgical experience; Doctor or Hospital. Miss Shaw, Boston Hospital, Lincolnshire.

LADY Dispenser (unqualified) seeks engagement with Doctor or Hospital in London; good knowledge of Dispensing. Rochart, 3 Bethune Road, Stamford Hill.

LADY Dispenser (Hall qualification); disengaged; S.W. preferred. Barford, 2 Jeffreys Road, Clapham.

LADY Pharmacist requires post or Part-time; excellent experience and testimonials. 102/9 Office of this Paper.

LOCUM; gentlemanly and reliable; qualified; good references; disengaged from June 2 to September. "Camol," North Hill Pharmacy, Plymouth.

LOCUM; qualified; 30 years' wide experience; disengaged; inquiries invited. Smith, 22 Fenwick Street, Warsop, Mansfield, Notts.

LOCUM for Whitsun; seaside or country. James, Flamstead, Mottingham, Kent.

LOCUM; town, country; permanency town; fully experienced; reliable references. Forster, 5 Coleridge Road, Finsbury Park, N.

LOCUM; unqualified; free any week in July. Willis, 92 Jamaica Road, Bermondsey.

LOCUM or permanency; 27; tall; 12 years' experience; trustworthy; reliable references; disengaged after June 28. "Unqualified," 46 Napier Avenue, Southend-on-Sea.

LOCUM; 32; disengaged; experienced; references. "Aspirin," 395 High Road, Gunnersbury, W.

LOCUM, qualified; short periods; experienced; expert Optics; abstainer; 40; South preferred. "Chemist," 48 Bearwoodhill Road, Burton-on-Trent.

LOCUM, qualified; age 47; smart, gentlemanly appearance; Prescriber, Salesman; exceptional all-round London Store experience as Manager in leading main thoroughfare; highest references; disengaged. Particulars to Richard, 52 Maryland Road, Maida Vale.

LOCUM or permanent; disengaged; thoroughly reliable; abstainer; unqualified. "A. W.," 150 Tollington Park, N.

LONDON.—Unqualified; 33; Counterman, Dispenser; good references and experience; permanency preferred. "Obliging" (98/17), Office of this Paper.

MANAGER; 20 years' experience in good suburban Domestic Stores; highest references. "B.," 86 Constantine Road, Hampstead, N.W.

MIDDLE-AGED; Prescriber, Photography; unqualified; varied experience; good Extractor (painless etc.), fair Mechanic; 5 years last; would open up Dentistry; not afraid of work. "Teeth," 66 Rainham Road, Chatham

MINOR; 41; Dispenser, superintend, etc.; permanency; terms moderate; single. "Reasonable" (99/050), Office of this Paper.

ONE or two evenings from 7 p.m.; quick Dispenser. 5 King's Avenue, Hounslow.

PART-TIME; Chemistry, Optical, Dispensing; evenings. Murphy, 4 Ferndale Road, Clapham.

PERMANENCY; 44; good Extractor (own instruments), Dispenser, and Stockkeeper; highest references; unqualified. "Exo." (100/32), Office of this Paper.

PHARMACIST (lady) desires engagement. "A. S.," "Ambleside," Carshalton Park Road, Carshalton.

QUALIFIED; any capacity; long and varied experience. "Pharmacist," 126 Victoria Street, Bristol.

QUALIFIED; middle aged; temporary, permanent; Dispensing; North preferred. "Star," 3 Melville Avenue, Barnoldswick.

QUALIFIED Assistant requires evening employment; good all-round experience; Continental Pharmacy; French spoken. Apply, "Senior," 31 Great St. Andrew Street, W.

QUALIFIED; 36; tall; married; Counter, Dispensing, Photography; London; disengaged. Stewart, 16a Highgate Road, N.W.

QUALIFIED, middle-aged, as Manager or outdoor Assistant; country; accustomed to entire charge. W. Smith, 39 Shakespeare Avenue, Portswood, Southampton.

QUALIFIED, age 58, requires post as Manager or Front Counter; outdoors; active; good references; disengaged middle June. Cuxell, c/o Mr. Cameron, Seaford, Sussex.

QUALIFIED, 31; good all-round experience, N.H.I. Dispensing, etc.; London berth preferred. "Salol" (99/25), Office of this Paper.

QUALIFIED Manager, over 50, but active and alert, in present (indoors) situation 5 years, seeking outdoors; 5 ft. 9 in.; good Prescriber. Apply, "E. D.," c/o Mr. F. Tunbridge, 39 Castle Street, Reading, to May 31, then 99/10, Office of this Paper.

QUALIFIED Manager in large provincial business desires change; thoroughly experienced and reliable; first-class references; abstainer; middle aged. "Progressive" (98/37), Office of this Paper.

QUALIFIED; single; varied experience; moderate terms; brisk business; London or provinces. "Business" (99/05), Office of this Paper.

QUALIFIED; 30 years in trade; free any time. Hazlitt, Post Office, Fleetwood.

QUALIFIED; 30; experienced; Liverpool or neighbourhood. "Za.," 19 Newcombe Street, Anfield, Liverpool.

QUALIFIED Manager; married; London and provincial experience; good references; permanency. 101/25, Office of this Paper.

UNQUALIFIED Junior; 20; height 5 ft. 7 in.; Counter and Dispensing; Manchester district preferred. Address, "Alpha," 72 Cheetham Hill Road, Manchester.

UNQUALIFIED Branch Manager; married, no family; London preferred; permanency; live on premises. 100/18, Office of this Paper.

UNQUALIFIED (27) seeks permanency; well up in N.H.I. Dispensing and General Retail; excellent references (2 years as Manager); salary 45s.; disengaged July 1. "Rhei" (99/8), Office of this Paper.

UNQUALIFIED (21) desires situation E.C. district; 6 years' country apprenticeship, 6 months' Dispensing business, West London; not disengaged; month's notice necessary. 98/10, Office of this Paper.

UNQUALIFIED (25), tall, wants position, chiefly Dispensing, in good-class business; good experience (South Coast) and references; disengaged June 29th. 98/38, Office of this Paper.

UNQUALIFIED Manager or Locum seeks engagement; first-class references and good experience; age 30; tall; sober and reliable; good Salesman and Window-dresser. "Enterprise," Cottenham, Cambs.

UNQUALIFIED; good all-round man; 32; N.H.I., Counter, Stock; working-class experience; references. "A. M.," 8 Netley Court, Hampstead Road, N.W.

UNQUALIFIED Assistant (25) desires berth; Midlands preferred, not essential; Dispensing and Counter. Hubble, 160 Annandale Road, E. Greenwich.

UNQUALIFIED; Hall qualification; mid-age; country preferred; clean, tidy, active, reliable; abstainer; good reference. "Active," 16 Nelson Street, Greenwich.

UNQUALIFIED; 37; good experience; London preferred; tactful Counterman, good Window-dresser. Fisher, 5 Cranston Road, Forest Hill, S.E.

UNQUALIFIED; evening work wanted; Dispensing or Surgery Attendant. "A.," 24 College Street, Chelsea.

WINDOW-DRESSER, smart, progressive, desires engagement, daily or weekly. "Xaxa," 191 Sandringham Road, Watford.

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ABSTAINER, 30 years of age, with extensive commercial and organising experience at home and in U.S.A., seeks position of trust, commercial or otherwise; highest references; home office in Yorkshire. Apply, 100/17, Office of this Paper.

CLERK (German Swiss); speaks and writes French and G perfectly, English fairly well; age 23; 6 years' good e ence in Drugs and Specialities. P. Hunziker, 11 Cambridge Hammersmith, W.

GOOD Side-line wanted to work with present commi London and Suburbs; sound connection. "A.," 42 O Road, Balham, S.W.

LANCASHIRE.—Having terminated 8 years' services w Manchester firm of repute, I am open to negotiate sentation of Lancashire and district; personal Medical tion. Write, Robertson, 33 Ashbourne Grove, Higher Brou Manchester.

PERFUMER; competent, practical, reliable in all depar of trade; many years' experience. "E. A. J." (9 Office of this Paper.

PHARMACIST, with good experience and credentials, appointment with firm of Manufacturing Chemists; a take charge. "Manufacture," Tregenna, Devereux T Southend.

PILL-MAKER requires employment; 14 years' experience and Mass making. 98/16, Office of this Paper.

POSITION of trust required inside or out; 24 years' all experience, including Warehouse management; qualified address; excellent credentials. 99/23, Office of this Paper.

PRINTER seeks situation in Wholesale Druggist's; ag good reference; 5 years in two Wholesale houses. Office of this Paper.

TRAVELLER; Drugs or Specialities; good connection W England. 101/31, Office of this Paper.

TRAVELLER, experienced, commercial training, smart man, open to Represent good house; Essences, Oils, I etc.; sound connection. Apply, 70/22, Office of this Pape

TRAVELLING Representative; aged 28; disengaged; P taries, Toilet Articles, Perfumes, Packed Specialities; connection, London, Midlands, Lancashire, North of Engla Scotland; 5 years with two first-class London houses; th salesman; excellent references. 102/11, Office of this Pa

YOUNG man seeks situation; knowledge of Patents, Drugs, and Sundries; good Packer; used to busy 4½ years in present situation. Apply, R. Griffin, 25 P Street, Reading.

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(Colonial, Indian and Foreign.)

1s. for **12** words or less; **6d.** for every **10** words beyond, p The **Advertiser** may, if preferred, have replies addressed Office, and forwarded on payment of an additional charge

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UNQUALIFIED Assistant (26) desires position abroa years' experience, City and provincial; also practical ledge of Dentistry, Bench and Surgery work. 96/20, O this Paper.

UNQUALIFIED Assistant, 23, excellent Dispensing, and Photographic experience, six months in Belgium, place abroad. P. Carter, 244 Stanton Street, Newcastle-o

UNQUALIFIED (24) seeks position abroad; East pr speaks French fluently; good experience and ref "P. W.," Beaulieu, Emborne Road, Newbury.

READY MONDAY NEXT.

"How to Compete with Patents." This letter shows how you can m increased competition and turn it to your advantage, with instructi window show, etc. For one week only I will send this letter, togethe a window centre, size approx. 30 × 20 to Pharmacists only, for 5/- P.O. I can only supply one Pharmacist in a district, and Pharmacists only. application should be made for the same to save disappointment. to date ideas in advertising, window shows, ideas for new specia window centres, write for particulars to

BILLYARD ALLISON, Pharmacist & Business Specialist, RETF

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CHS. W. BRUMWELL

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Wan (subject).—200 Camwal Preference, 4*s.*; 500 Idris "A" eference 3*s.* 3*d.*; 200 G. B. Kent Preference, 15*s.* 6*d.*; 200 D s & Burrows Preference, 12*s.*; 1,000 Parke's Drug Ordina 3*s.* 9*d.*; 200 Preference, 11*s.* 9*d.*; 190 Wright, Layman & Um Preference, 20*s.* 9*d.*
List Shares for *Sale* and *Wanted* sent free on application. Every ort made to effect business for Buyers and Sellers in all St s and Shares. Bankers, London County and Westminster.

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CHE STS' Fittings, Silent Salesman Showcases, Drugfittings, Di ensing-screens, Wall-cases, Perfume-cases, Desks, Glass front C nters, Counter Drawers, Shop-soiled, Second-hand, at unbeaten ices; before you decide get my estimate, you can't do better; 0 years fitting Pharmacies. George Cook, the Chemists' workin Shopfitter. New address: Catherine Street, City Road, E.C. (f doors from Old Street).

CHE STS' Second-hand Modern Fittings.—14-ft. Drug Fitting; 10 . Glass-fronted Counter; Nest of Counter Drawers; 6-ft. D ensing Screen and Counter; Perfumery Case and Desk; Mahogs and Bent Plate-glass Counter Case; 8-ft. Window Enclosu and Plate-glass Mirror; the lot £49, bargain; send for ske hes; cheapest house for structural alterations, Shop fronts, indow Enclosures, Glass Shelves; Estimates free. H. MILLS Chemists' Shopfitter, Shop-front Builder, and Glass Facia Works, 53-5 Old Street, E.C.

BEST ash price for all old Cameras, any make, also all old Ph goods, no matter how damaged; any kind you may have send th along; cash will be sent same day; no waiting; we buy all and turn nothing. S. E. Hackett, 23 July Road, Liverpool, E.

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The tentee, Mr. JOHN LANDIN, Analyst and Chemist for t City of Stockholm, is prepared to grant a Licence or l ences for the Manufacture of Radio-active Foods unde Patent 18004/1911. For terms write Box 852, Coops, 5 Copthall Court, London, E.C.

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FOR DISPOSAL.

BOOKS AND PERIODICALS.

FOR sale, "Pharmaceutical Formulas," 1911 edition; good condition; what offers? "Alpha," 104 Lorne Road, Leicester.

DRUGS AND CHEMICALS.

OVERSTOCK.—1 lb. ol. lavand. Mitcham, Meggeson's, sealed 1904, also one 2-lb. ditto, 50*s.* per lb. Fitt, Chemist, Norwich.

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OFFERS.—6 doz. Dr. Hale's vin. sanguis; 5¾ doz. Dr. Hale's coca wine. 89/35, Office of this Paper.

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WINDOW enclosure, finest mahogany, 7 ft. 5 in. long, 4 ft. 8 in. high, 25 in. deep, 2 doors, 1 sliding panel, plate mirrors inside and out, fitted 3 shaped ¾-in. plate shelves, each in three portions, bronzed uprights and brackets complete; carefully packed, f.o.r., £10, or nearest offer; an absolute bargain. Stead, 23 Duke Street, Brighton.

MISCELLANEOUS.

SIX oxygen cylinders, 20 ft., with hemp covers; 20*s.* each carriage forward. Colby, Chemist, Brighton.

BOUGIE mould, Maw's, new, 5*s.*; 3 tooth forceps, Maw's, 7*s.* 6*d.* "Chemist," 38 Richmond Road, Bayswater W.

SECOND-HAND collection materia medica specimens, suitable for pharmacy student. Miss Illsley, 20 Orchard Street, Tamworth, Staffs.

WANTED.

INVALID carrying chair. Price and full particulars to Mayne, Chemist, Cork.

THREE small carboys, also 20-oz. shop-rounds. Evans, Chemist, Enfield Lock, Middlesex.

½ and 1 oz. tins; names immaterial. Butterworth, 11 Bewley Street, Hulme, Manchester.

HAND tablet-machine wanted, cheap, for cash. "A.," c/o Smart Ad, Lambert House, Ludgate Hill.

"C. & D." wanted in exchange for "Pharmaceutical Journal," posted Sunday. Brown, 92 East Claremont Street, Edinburgh.

TUTOR wanted at once for Preliminary examination subjects. Write, A. Venables, 32 Hamlet Road, Chelmsford.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

MINOR EXPERIENCES.

W. R. V. (138/69) writes that punctually at the time appointed he, with about forty other candidates, entered the examination-hall at Galen Place, London, W.C. He continues: I was sent to

Dispensing in the small room, where the following paper was handed to me:

Mist. olei ricini, B.P. ... ... ʒiv.
Ft. mist.
¾ pars pro dos.

Strychninæ ... ... gr. 1/32
Acid. arsenios. ... ... gr. 1/4
Ferri et quin. cit. ... ... gr. iij.
Ft. pil. Mitte 36. Varnish.
j. t.d.s.

Suppos. morph., B.P., vj.

Cocain. ... ... 5 per cent.
Vaselin. alb. ad ... ... ʒiv.
Ft. ung.
More diet. utend.

Tr. ferri perchlor. ... ... ʒiss.
Syr aurant. ... ... ʒvj.
Spt. chlorof. ... ... ʒij.
Inf. quassiæ ad ... ... ʒvj.
Ft. mist.
ʒss. t.d.s.

Everything proved to be quite straightforward, and I finished nicely just before one o'clock. After lunch,

Practical Chemistry consisted of: (1) Identify the powder No. 14. (2) Determine whether the draught No. 14 is made up accurately according to the following prescription:

Potass. bromid. ... ... gr. x.
Syrupi ... ... ʒj.
Aq. ad ... ... ʒiss.

Pure silver nitrate was provided (1 gram=15.432 gr.). The powder proved to be antimony potassium tartrate. In the volumetric estimation I weighed out 1.7 gram of silver nitrate to make 100 c.c. of decinormal solution. I then titrated 10 c.c. of the draught. My calculation was 9.7 gr.

The next morning a "thin" paper arrived requesting my attendance for the oral examination on the following afternoon at 1.55. After a short wait I was sent to

Pharmacy.—First I had to write down all the preparations of opium I knew, giving their strengths; then all the lamellæ, with strengths. Next I was asked how to make the following: Liq. pot. permang., liq. sod. ethylatis (with strength and how to prove presence of ordinary alcohol), ext. nuc. vom., ext. nuc. vom. liq., tr. strophanth., liq. sarsæ co. conc., inf. digitalis, and ung. aconiti; then to state the strength of morphine in morphine suppositories and of digitalis in the infusion. Lastly came a few questions on the poison laws.

Prescription-reading.—After expanding an abbreviated prescription into full Latin, the following calculation had to be worked out: "How much hydrarg. perchlor. is required to make six powders so that when each powder is dissolved in a pint of water it will make a 1-in-5,000 solution?" I was then asked about thirty doses, including strychnine, sod. salicylas, acid. arsenios., hyd. perchlor., antim. tart., phosphorus, and caffein. citras. I also had to read in full English about half-a-dozen prescriptions, all of which were fairly legible. After about ten minutes' wait I was sent to

Chemistry.—After a calculation relating to volume, temperature, and pressure of a gas, I was asked to describe a nitrometer. "What is the rubber tubing for?" "How would you estimate a sample of hydrogen peroxide?" Then "How do you make acetic aldehyde, formaldehyde, and formic acid?" formulæ being required for the two former. "How many oxides of copper are there?" "How is copper sulphate made?" Then came questions on ethyl acetate and the various preparations of mercury.

Materia Medica came next. Here about two dozen specimens were shown, the botanical names, natural orders, and habitats being required. They included coca-leaves, belladonna-root, nux vomica seeds, cherry-laurel leaves, and worm-seed. A few minutes later I proceeded to

Botany, where I was handed a flower and asked to draw its floral diagram and place it in its natural order. It turned out to belong to the *Solanaceæ*. I was then asked to recognise colchicum, fool's parsley, and rue, with questions on the natural orders.

A few minutes afterwards the President told me I had passed.

Council Election.

The adjourned annual meeting of the Pharmaceutical Society took place on May 21, at three o'clock, to receive the scrutineers' report as to the voting for candidates to fill the seven vacancies on the Council. The result is that there is no change, the seven old councillors being re-elected. The President (Mr. Edmund White) was in the chair, supported by Mr. W. F. Gulliver, the Secretary and the Assistant Secretary. Mr. Gulliver, chairman of the scrutineers, presented his report, which stated that 4,099 voting-papers were issued and 3,997 were returned. Of these 68 were informal or received too late, leaving 3,929 papers to be examined by the scrutineers. The result was declared as follows:

Young, J. R.	3,17
Rowsell, P. F.	2,93
Harrison, J.	2,81
Harrington, J. F.	2,73
Bilson, F. E.	2,72
Cuff, J. H.	2,61
Rogers, F. A.	2,41
Brumwell, C. W.	1,82
Arnott, D.	1,55
Skinner, H.	1,47

The first seven are the successful candidates. Mr. A. Rogers proposed a vote of thanks to the scrutineers and this was seconded by Mr. C. W. Brumwell, who said he is prepared to take a sportsman's view of his position on the poll. The motion was carried, and the meeting ended.

POISONING FATALITIES.

Four fatalities consequent upon taking poison have come to our notice this week.

Oxalic Acid.—Roger Parker (36), butler, died in Middlesex Hospital, London, W., from the effects of this poison.

Potassium Cyanide was taken with suicidal intent by William Jones (19), army recruit, at Liverpool.

Prussic Acid.—Charles Leonard Unsworth, B.Sc. (1), metallurgist, Moston, Lancs, died from prussic-acid poisoning. At the inquest a verdict of suicide while insane was returned.

Nicotine.—Levi Edser (59) poisoned himself at Fiddell Farm, Ewell, with XL fumigator.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notice of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, May 25.

Chemical Society, Theatre of the Royal Institution, Albemarle Street, London, W., at 6 P.M. Professor Svante Arrhenius, F.R.S., will deliver the Faraday lecture, entitled "Electrolytic Dissociation."

Tuesday, May 26.

Association of Women Pharmacists, Gordon Hall, Gordon Square, London, W.C., at 8 P.M. Discussion on "Methods of Ensuring Uniformity in Dispensing."

Wednesday, May 27.

Western Pharmacists' Association, Restaurant Frascati, Oxford Street, London, W., at 8.30 P.M. Annual general meeting.

Friday, May 29.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Professor J. C. Bose on "Plant Photographs and their Revelations."

Fairchild Scholarship and Prizes.—Tuesday, June 2, is the last date on which applications to sit for the examination for the Fairchild scholarship and prizes can be received by the Secretary, Mr. E. Holden, Albert Chambers, 64-65 Holborn Viaduct, London, E.C.

Liverpool Chemists' Association.—It is proposed to have a picnic on June 24, and members are asked to make a choice of four districts, to one of which the excursion will take place, Clitheroe, Overton Hills, Greesford, and The Leet, Rhydlydyn, near Mold. The cost of the outing will be approximately 5s.

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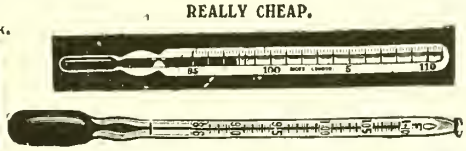

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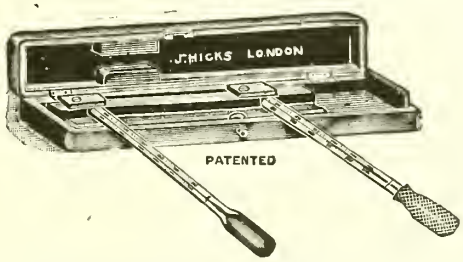

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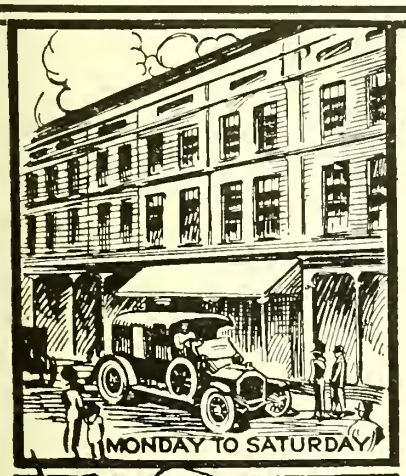

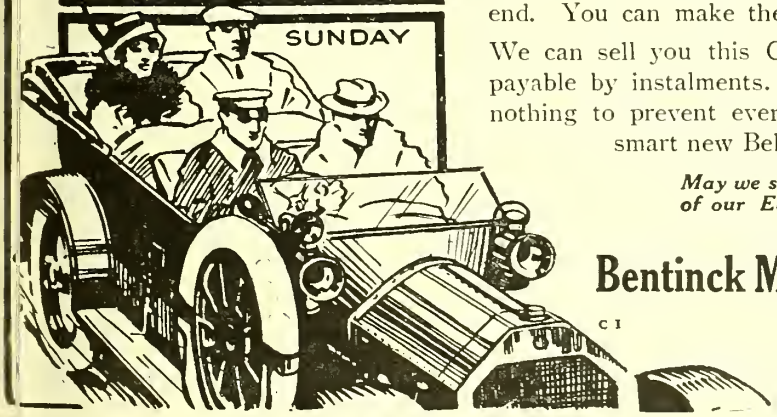

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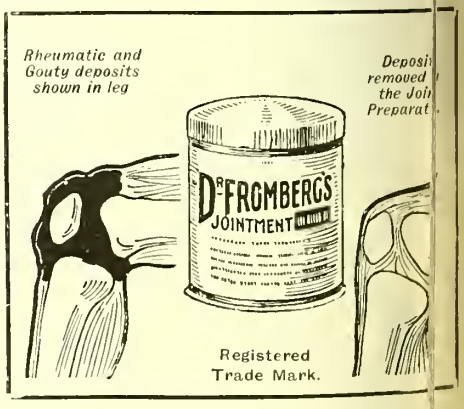

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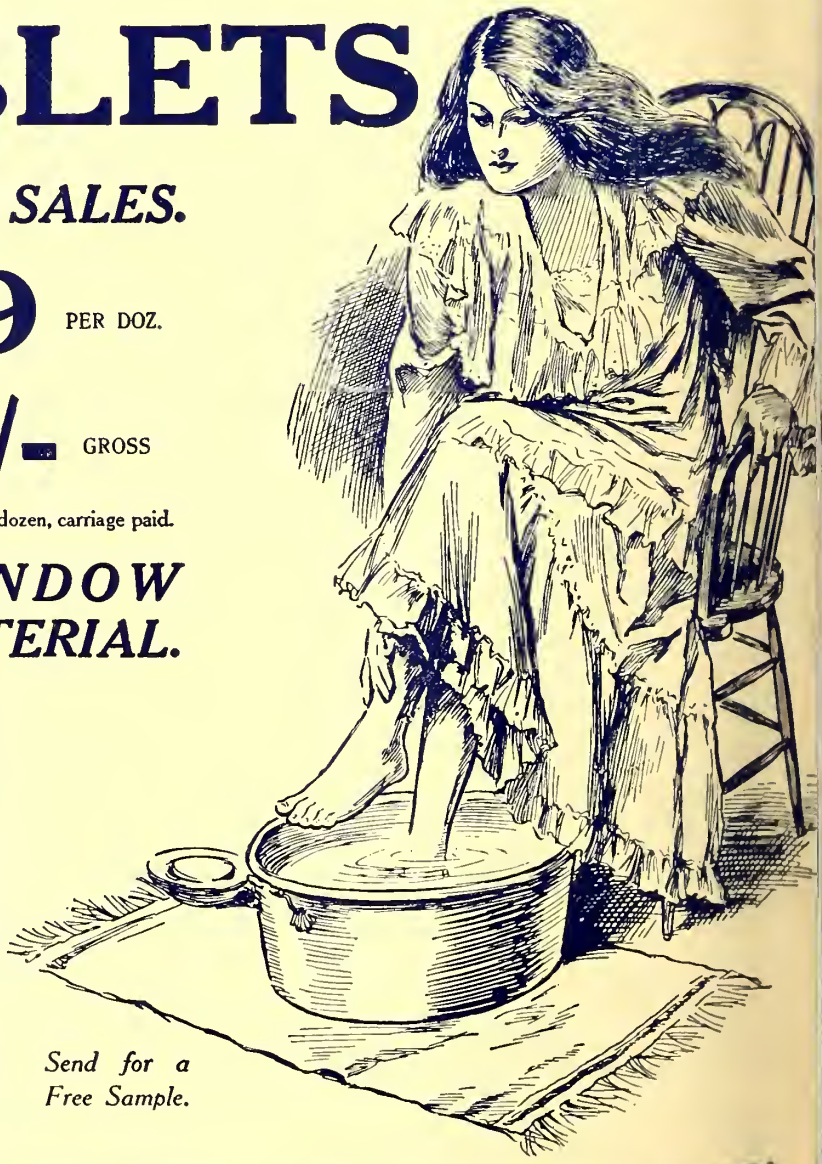

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